



HIV IN THE BALTIMORE-TOWSON METROPOLITAN AREA

**GREATER BALTIMORE HIV PLANNING COUNCIL
JUNE 16, 2015**

**Colin Flynn, Chief
HIV Surveillance, Epidemiology and Evaluation**

**Maryland Department of Health and Mental Hygiene
Prevention and Health Promotion Administration**



MISSION AND VISION

MISSION

- The mission of the Prevention and Health Promotion Administration is to protect, promote and improve the health and well-being of all Marylanders and their families through provision of public health leadership and through community-based public health efforts in partnership with local health departments, providers, community based organizations, and public and private sector agencies, giving special attention to at-risk and vulnerable populations.

VISION

- The Prevention and Health Promotion Administration envisions a future in which all Marylanders and their families enjoy optimal health and well-being.

Outline

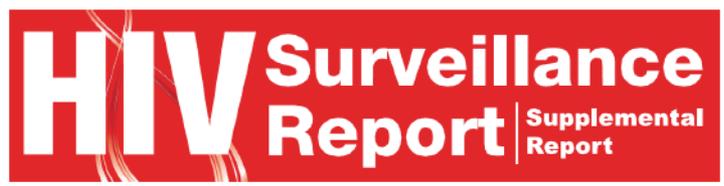


- National Data
- State Data
- Regional Data
- Moving Forward
- Continuum of Care by Population Groups



National Data

U.S. Prevalence



Volume 19, Number 3

**Monitoring Selected National
HIV Prevention and Care Objectives
by Using HIV Surveillance Data—
United States and
6 Dependent Areas—2012**

- CDC estimated 1,201,100 adults/adolescents were living with HIV at the end of 2011
- 14.0% were undiagnosed

Living Adult/Adolescent HIV Diagnoses, Year-end 2012 Ranked by Estimated Rates

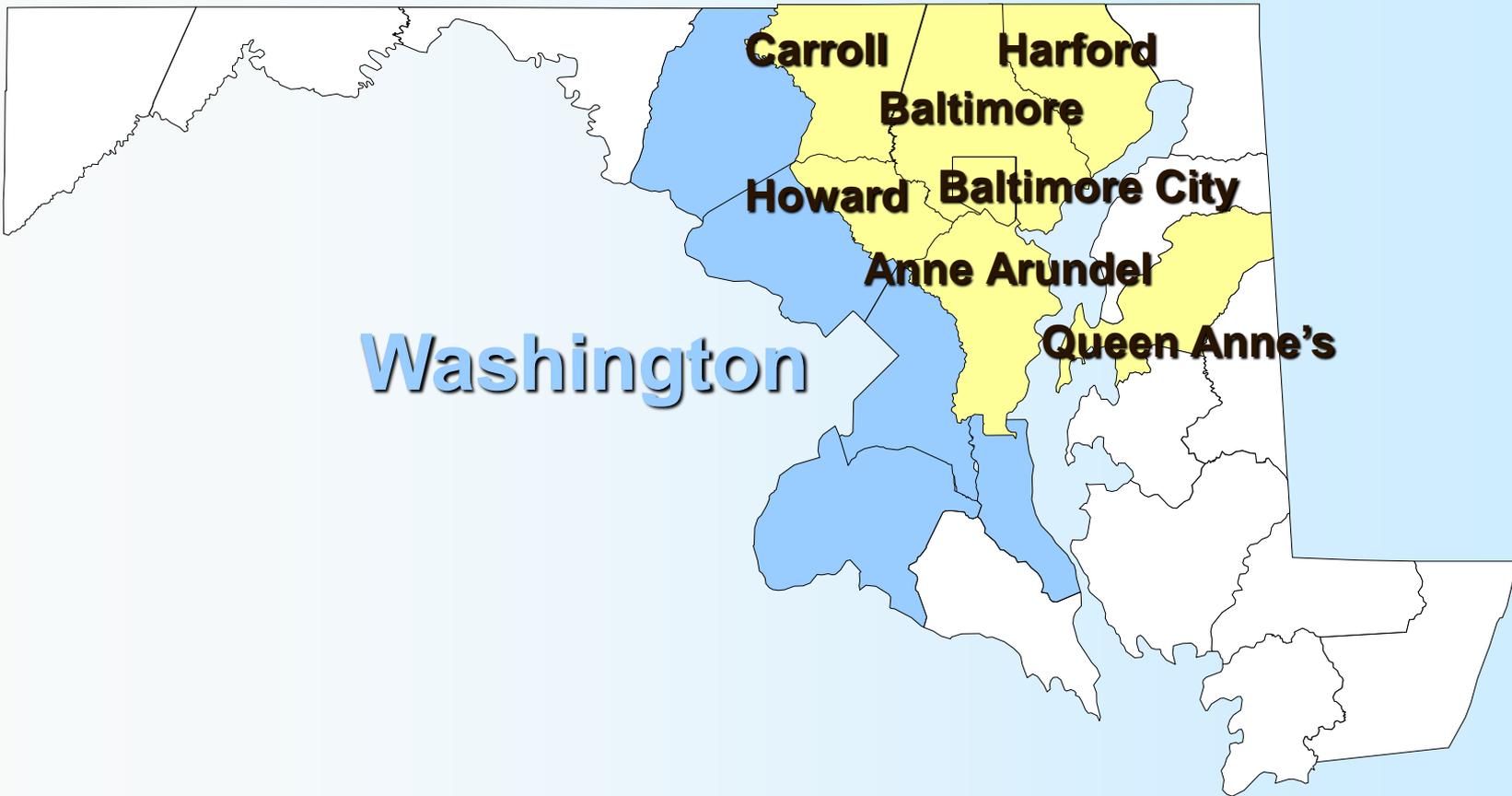


<u>STATE/TERRITORY</u>	<u>Reported Cases</u>	<u>Estimated Cases</u>	<u>Estimated Rate per 100,000</u>
1. District of Columbia	14,989	15,505	2,812.4
2. New York	129,987	129,379	782.0
3. Virgin Islands	600	608	688.7
4. Maryland	30,293	31,067	631.1
5. Puerto Rico	18,386	18,442	600.2
6. Florida	99,209	98,650	599.0
7. New Jersey	37,137	38,115	513.3
8. Louisiana	18,535	18,430	485.8
9. Georgia	38,357	39,102	481.8
10. Delaware	3,029	3,010	391.0
<i>United States</i>	<i>927,148</i>	<i>931,449</i>	<i>352.3</i>

Maryland Ryan White Eligible Metropolitan Areas



Baltimore



Washington

Living HIV Diagnoses, Year-end 2012, Ranked by Estimated Rates



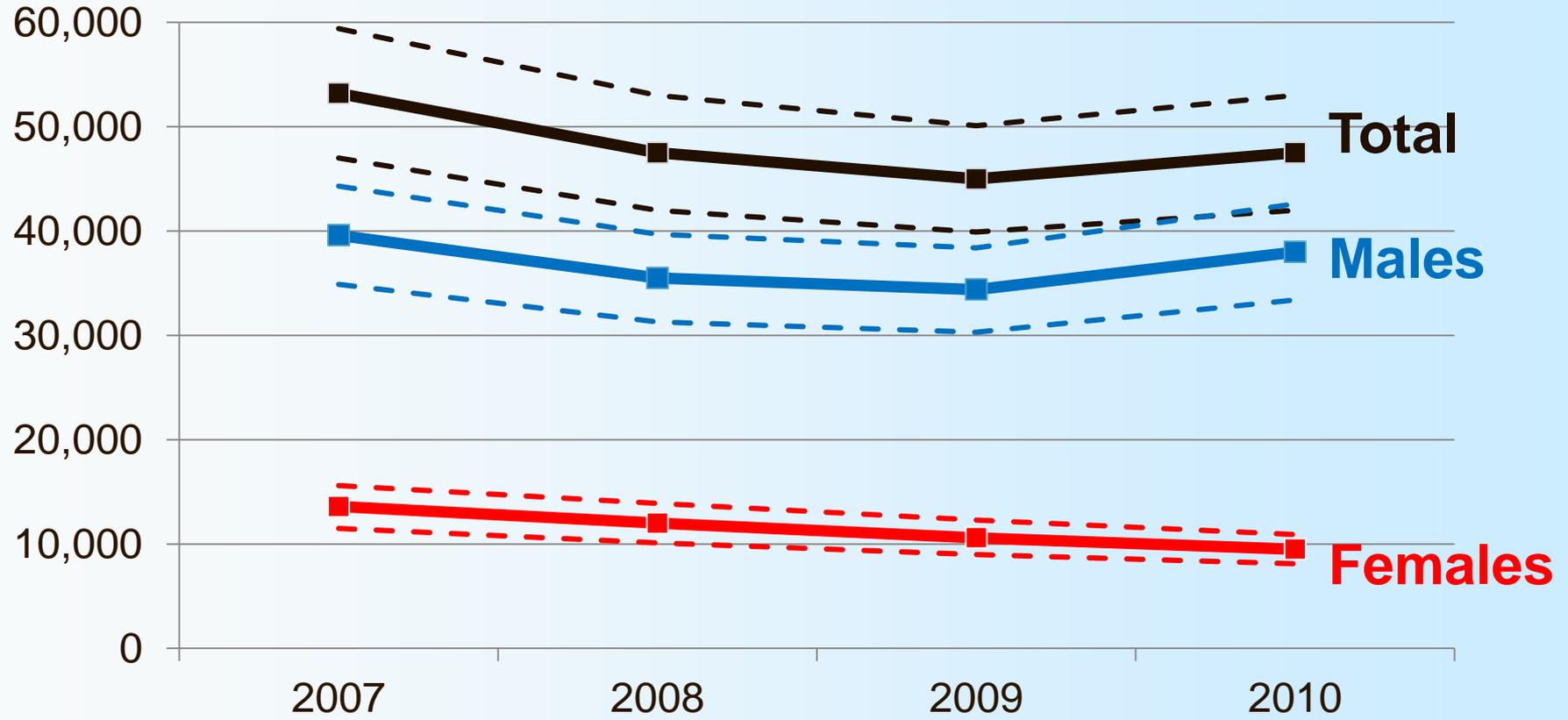
	Reported <u>Cases</u>	<u>Estimated</u> Cases	Rate per <u>100,000</u>
<u>METROPOLITAN AREA</u>			
1. Miami-Fort Lauderdale-West Palm Beach, FL	51,630	51,349	891.0
2. New York-Newark-Jersey City, NY-NJ-PA	143,939	144,282	727.3
3. Baltimore-Columbia-Towson, MD	17,992	18,288	664.1
4. New Orleans-Metairie, LA	8,153	8,101	659.9
5. Jackson, MS	3,354	3,307	573.7
6. Washington-Arlington-Alexandria, DC-VA-MD-WV	32,649	33,595	573.0
7. San Juan-Carolina-Caguas, PR	13,112	13,169	570.9
8. San Francisco-Oakland-Hayward, CA	24,498	24,556	551.3
9. Baton Rouge, LA	4,449	4,425	543.0
10. Memphis, TN-MS-AR	7,373	7,233	539.5
15. Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	26,151	25,920	430.6
<i>United States*</i>	928,953	933,295	293.9

* 50 states, DC, and Puerto Rico, only.
CDC. HIV Surveillance Report, 2013. Vol. 25. Table 22.

U.S. HIV Incidence



Estimated New HIV Infections



Populations with Changes in HIV Incidence



- Overall national incidence estimate is unchanged from 2008-2010
- 21% decrease among females
- 12% increase among MSM
- 22% increase among 13-24 year old MSM



Volume 17, Number 4

**Estimated HIV Incidence in the
United States, 2007–2010**

National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
Division of HIV/AIDS Prevention



Adult/Adolescent HIV Diagnoses during 2013 Ranked by Estimated Rates



<u>STATE/TERRITORY</u>	<u>Reported Cases</u>	<u>Estimated Cases</u>	<u>Estimated Rate per 100,000</u>
1. District of Columbia	486	612	109.2
2. Maryland	1,397	2,168	43.7
3. Georgia	1,872	3,011	36.7
4. Louisiana	1,356	1,398	36.6
5. Virgin Islands	23	29	33.3
6. Florida	5,188	5,364	32.1
7. New Jersey	1,387	2,169	29.0
8. Puerto Rico	607	761	24.9
9. New York	3,580	3,800	22.8
10. Texas	4,290	4,836	22.7
<i>United States</i>	<i>41,854</i>	<i>47,957</i>	<i>18.0</i>

HIV Diagnoses during 2013 Ranked by Estimated Rates



	Reported	Estimated	
	Cases	Cases	Rate per 100,000
<u>METROPOLITAN AREA</u>			
1. Miami-Fort Lauderdale-West Palm Beach, FL	2,502	2,582	44.3
2. New Orleans-Metairie, LA	521	538	43.4
3. Baltimore-Columbia-Towson, MD	650	1,010	36.5
4. Baton Rouge, LA	288	297	36.2
5. Atlanta-Sandy Springs-Roswell, GA	1,214	1,919	34.7
6. Washington-Arlington-Alexandria, DC-VA-MD-WV	1,482	1,995	33.5
7. Memphis, TN-MS-AR	393	413	30.8
8. Jackson, MS	164	170	29.5
9. Jacksonville, FL	361	373	26.8
10. Orlando-Kissimmee-Sanford, FL	584	604	26.6
22. Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	1,098	1,225	20.3
<hr/>			
<i>United States</i>	42,168	48,875	15.4

* 50 states, DC, and Puerto Rico, only.
 CDC. HIV Surveillance Report, 2013. Vol. 25. Table 22.

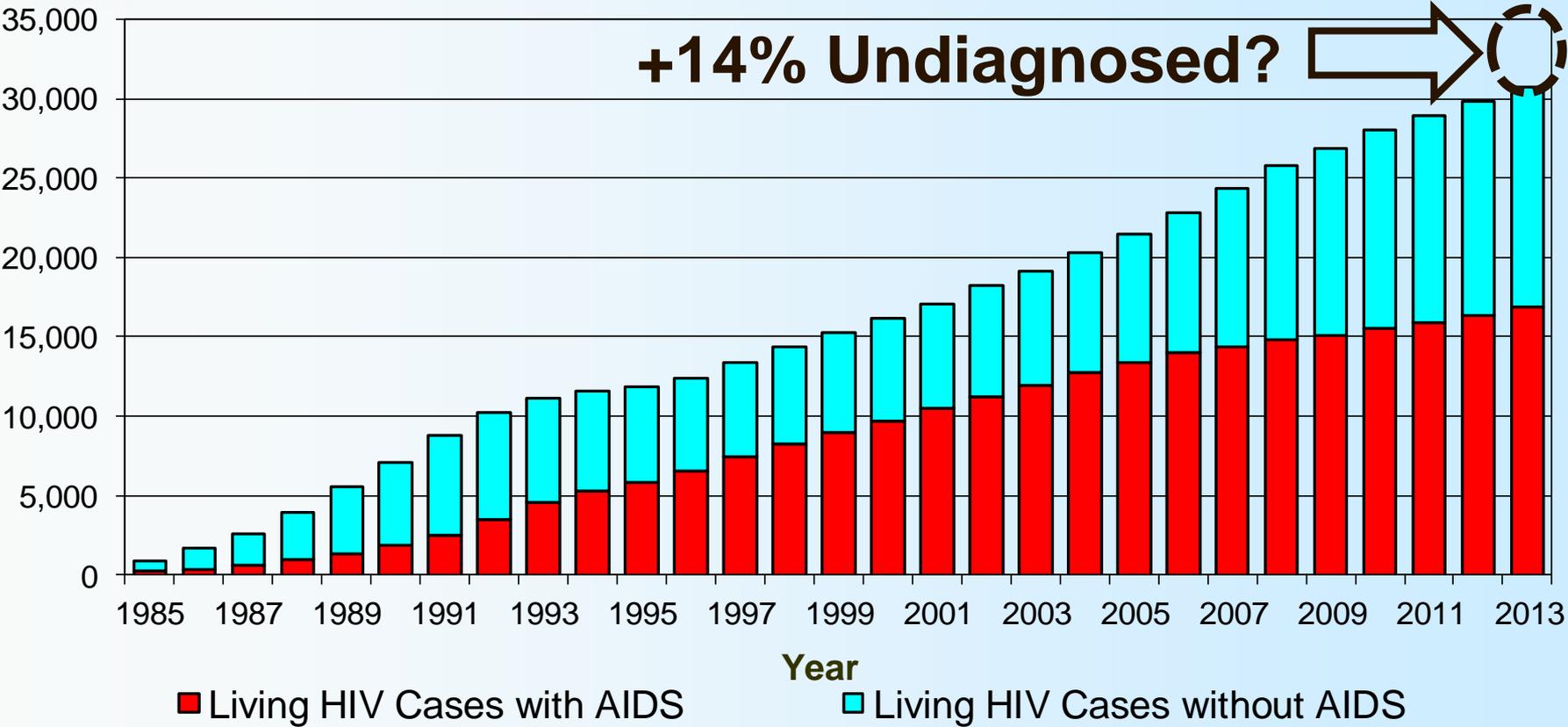


State Data

Maryland Adult/Adolescent Living HIV Cases



Number of Cases



Using data as reported through 12/31/2014



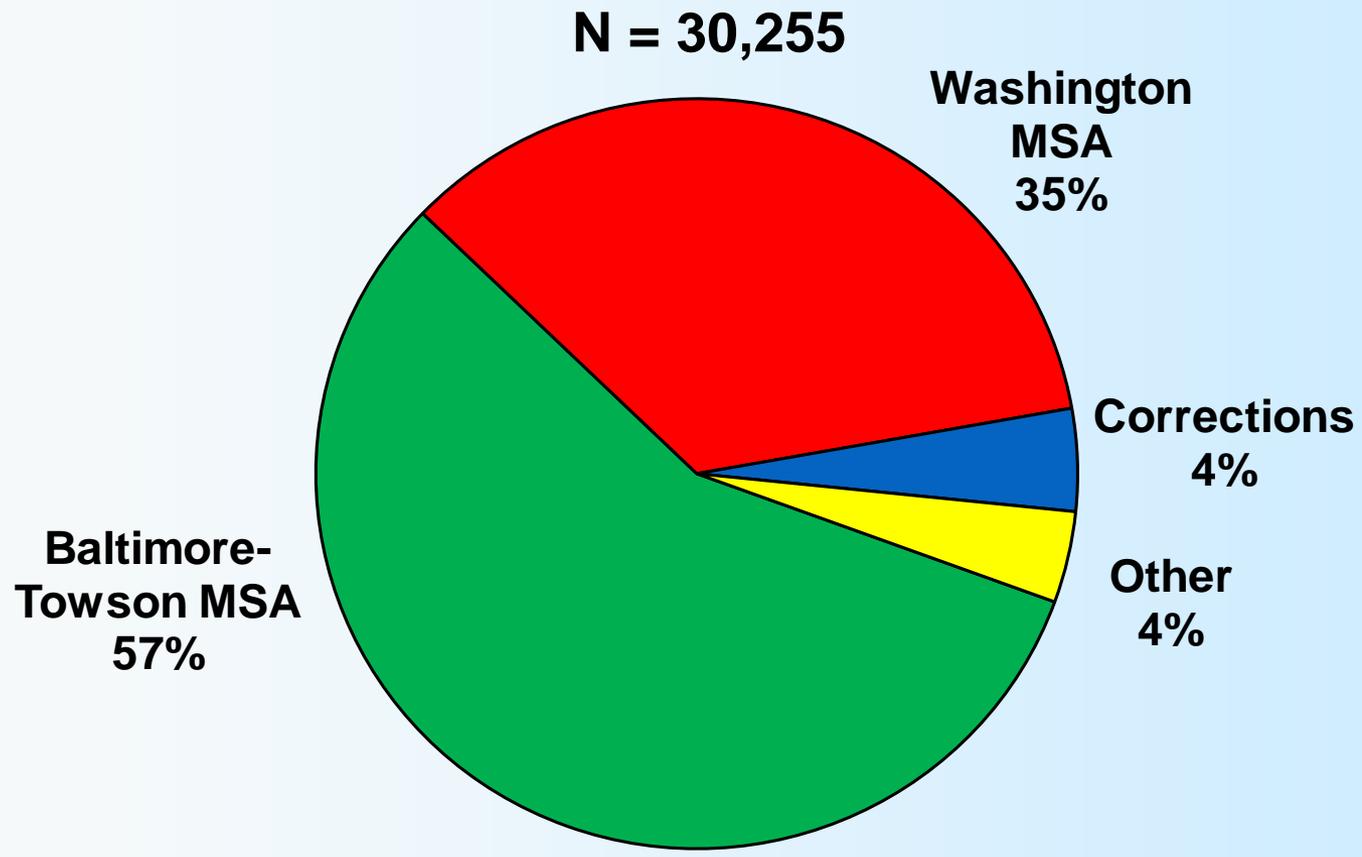
Maryland Adult/Adolescent HIV Statistics



Reported Diagnoses (during 2013)	No.	per 100,000	
HIV	1,394	28.1	
AIDS	945	19.0	
Deaths Among AIDS Cases (during 2013)	No.		
	388		
Living Cases (on 12/31/2013)	No.	per 100,000	1 in X
HIV without AIDS	13,595	273.9	
HIV with AIDS	16,660	335.6	
Total HIV	30,255	609.5	164

Using data as reported through 12/31/2014

Maryland Adult/Adolescent Living HIV Cases by MSA, 12/31/13

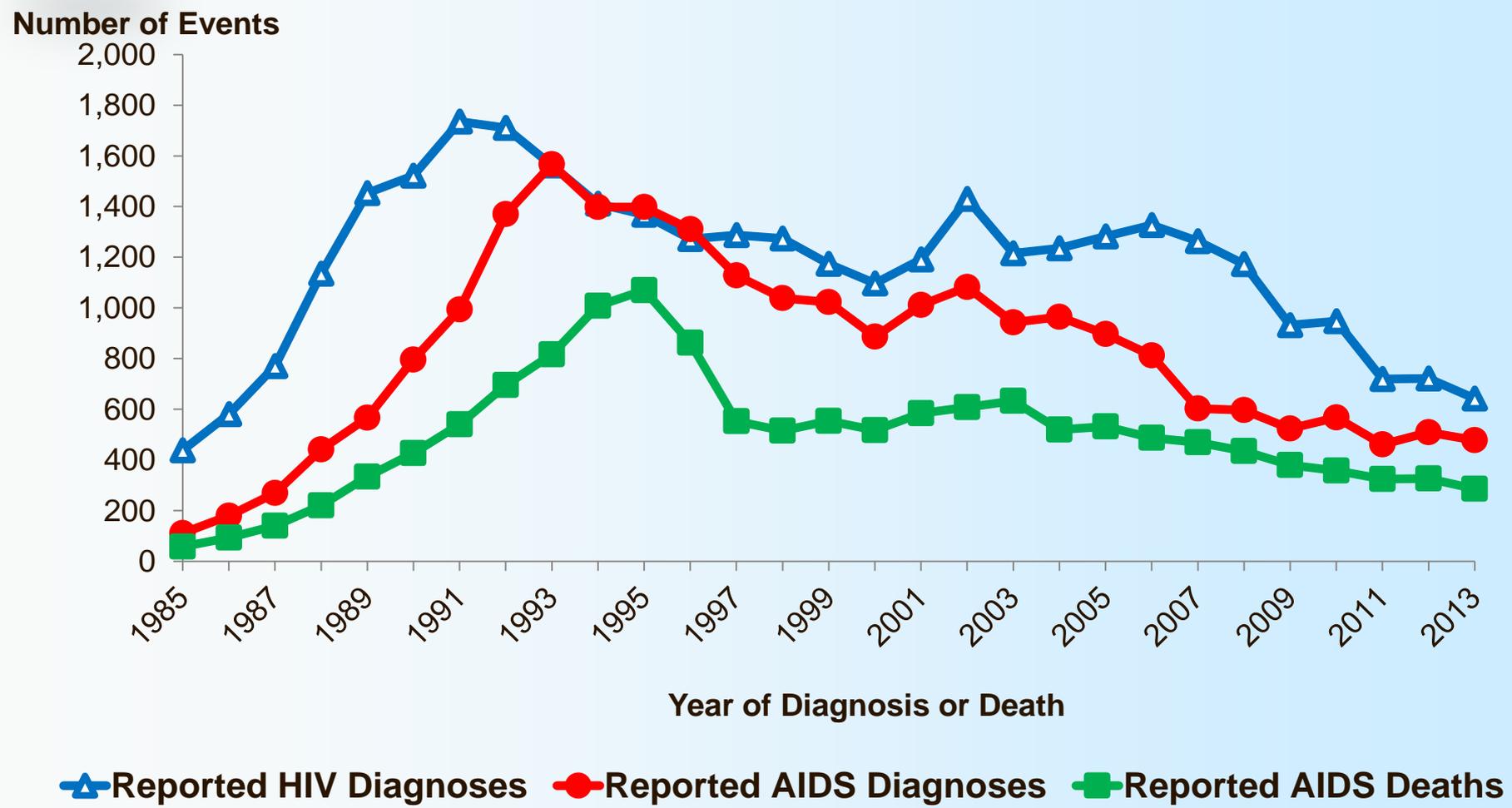


Using data as reported through 12/31/2014



Regional Data

Baltimore-Columbia-Towson MSA Adult/ Adolescent HIV/AIDS Trends

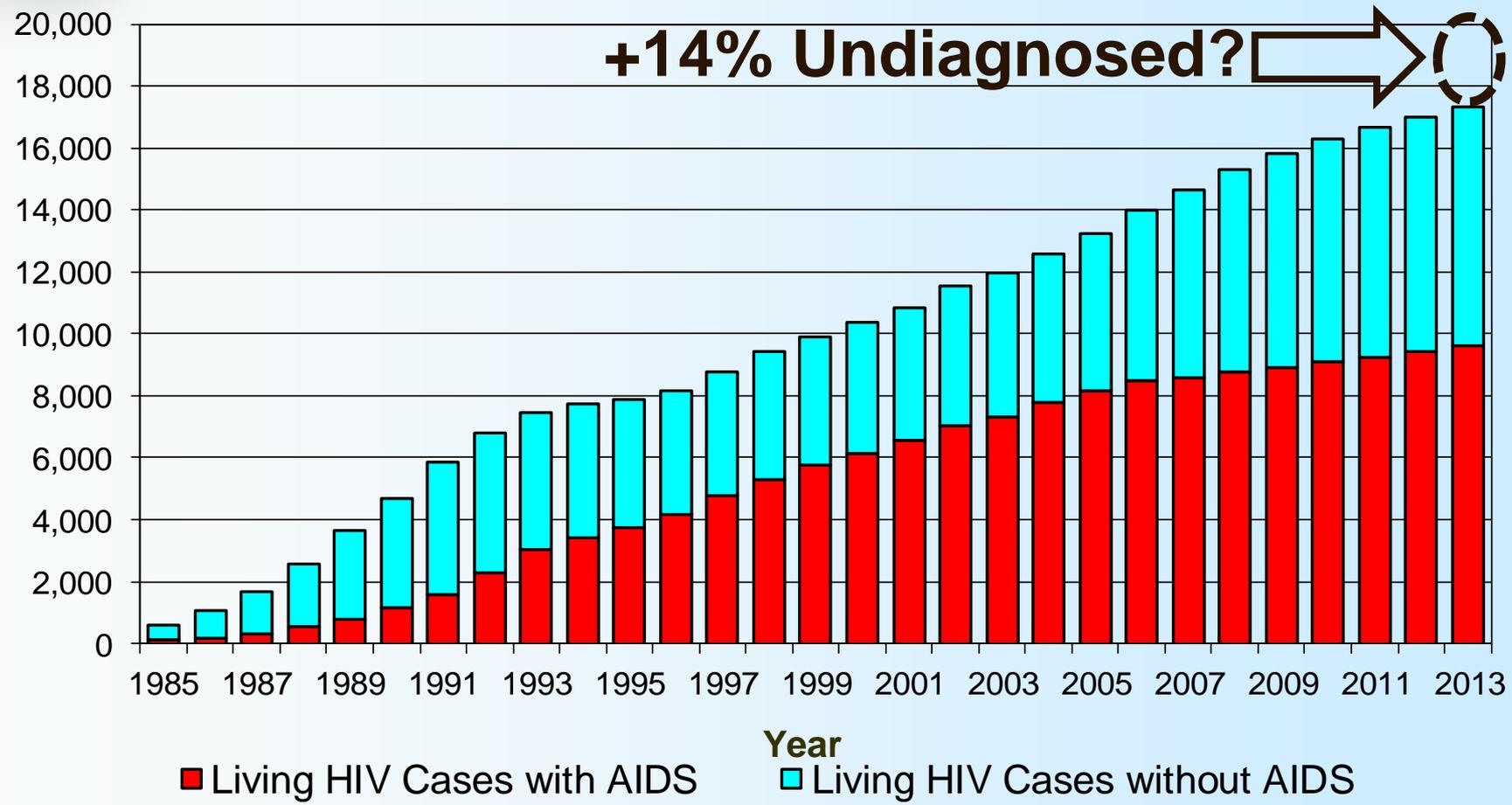


Using data as reported through 12/31/2014

Baltimore-Columbia-Towson MSA Living Adult/Adolescent HIV Cases



Number of Cases



Using data as reported through 12/31/2014

HIV Statistics

Adult/Adolescent Cases

Baltimore-Columbia-Towson MSA

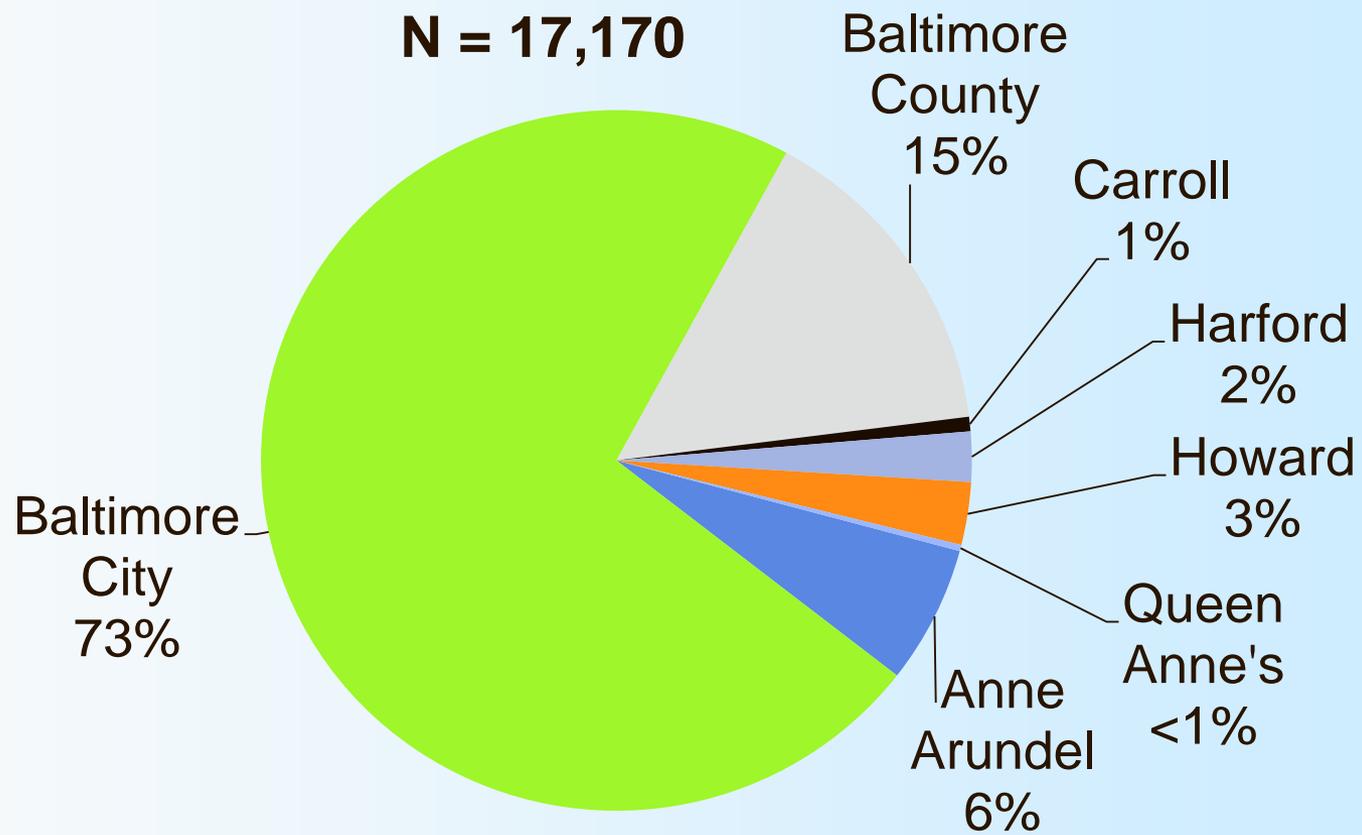


	HIV Diagnoses during 2013	Living HIV Cases on 12/31/2013
Baltimore-Columbia-Towson MSA	645	17,170
Anne Arundel	54	1,091
Baltimore City	385	12,434
Baltimore County	138	2,587
Carroll	2	115
Harford	32	397
Howard	32	497
Queen Anne's	2	49

Using data as reported through 12/31/2014

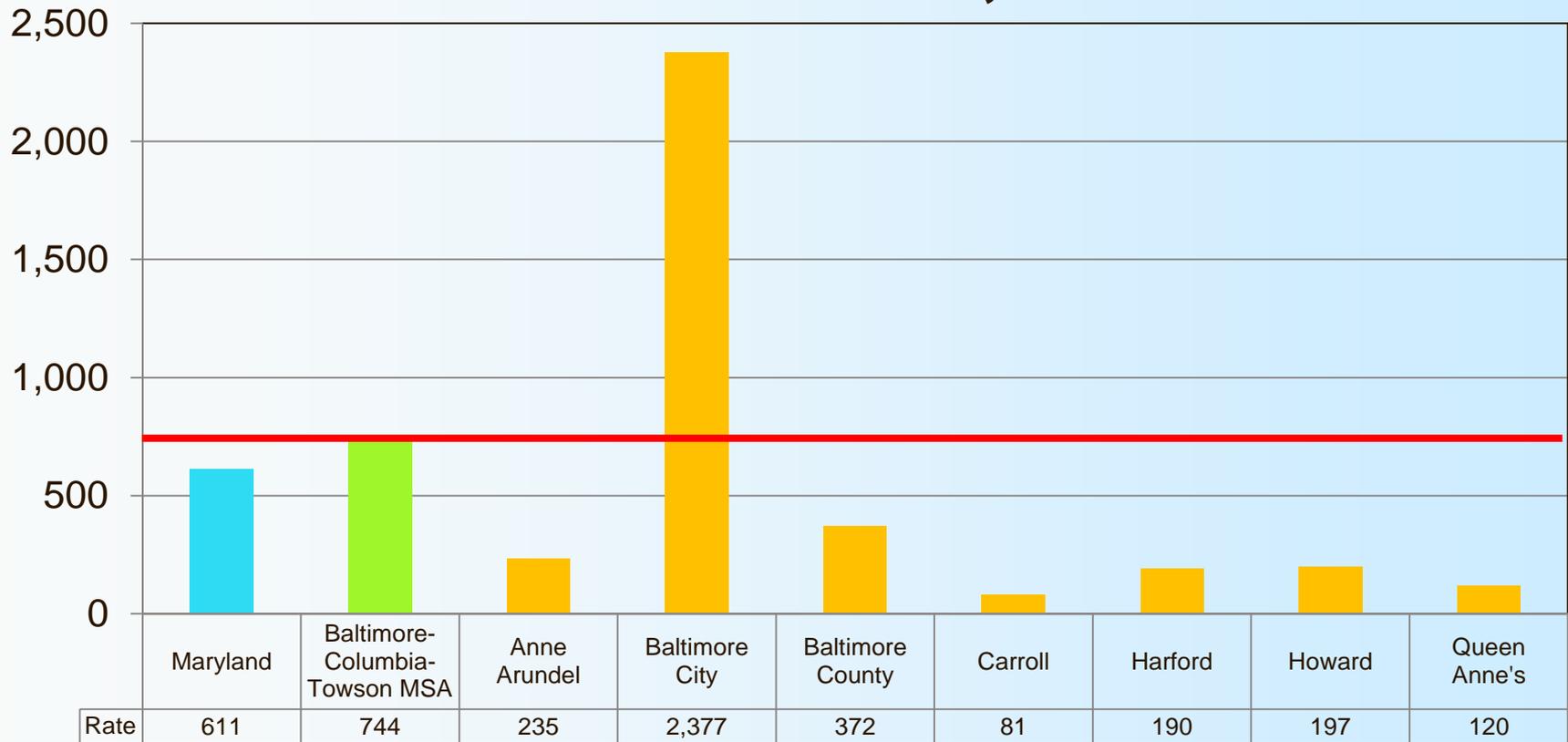


Baltimore-Columbia-Towson MSA Living Adult/ Adolescent HIV Cases by Jurisdiction, 12/31/13



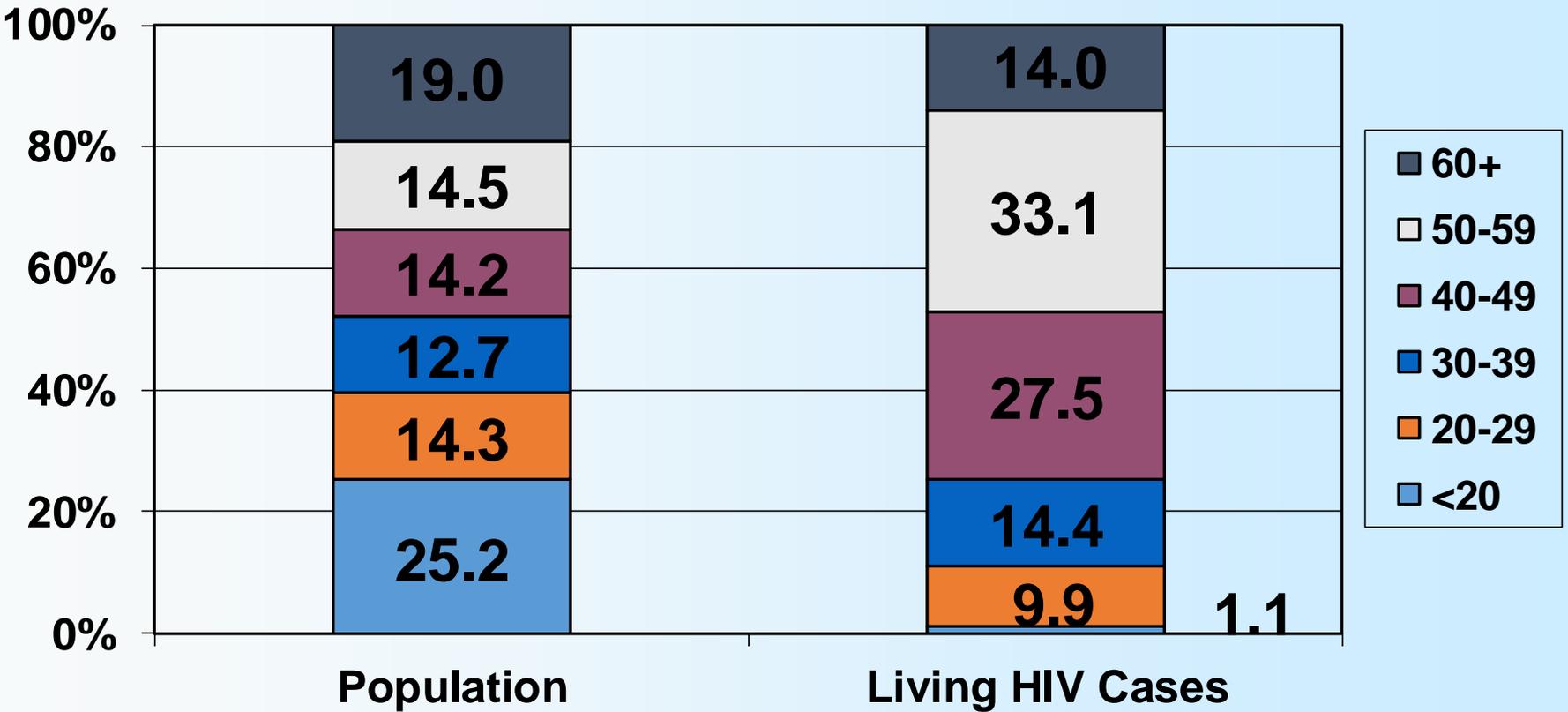
Using data as reported through 12/31/2014

Living Adult/Adolescent HIV Case Rates per 100,000 Population by Jurisdiction, Baltimore-Columbia-Towson MSA, 12/31/13



Population on 7/1/13. Cases on 12/31/13
as reported through 12/31/14

Population and Living HIV Cases by Age, Baltimore-Columbia-Towson MSA

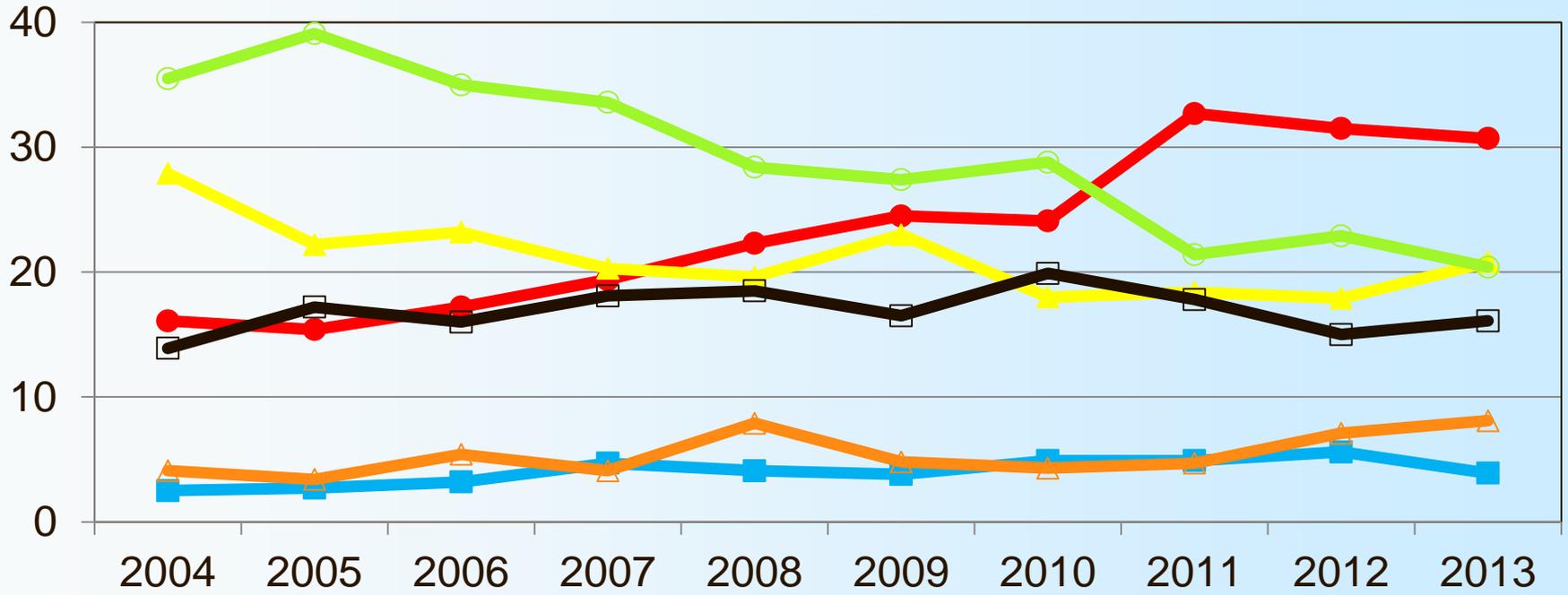


Population on 7/1/12, Cases on 12/31/13
as reported through 12/31/14

Adult/Adolescent HIV Diagnosis Trends by Age at Diagnosis, Baltimore-Columbia-Towson MSA



Percent



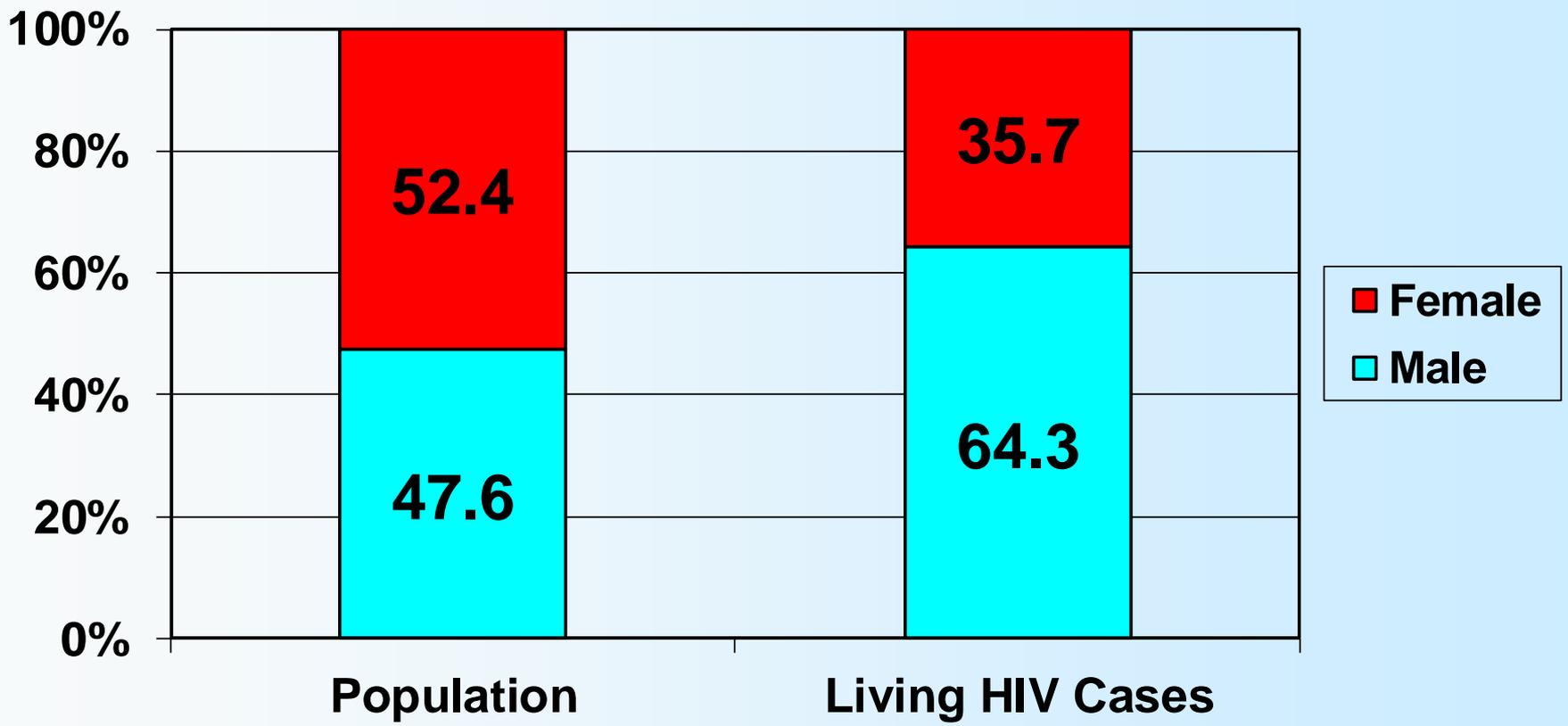
Year of HIV Diagnosis

■ 13-19
 ● 20-29
 ▲ 30-39
 ○ 40-49
 ■ 50-59
 ▲ 60+

Using data as reported through 12/31/2014

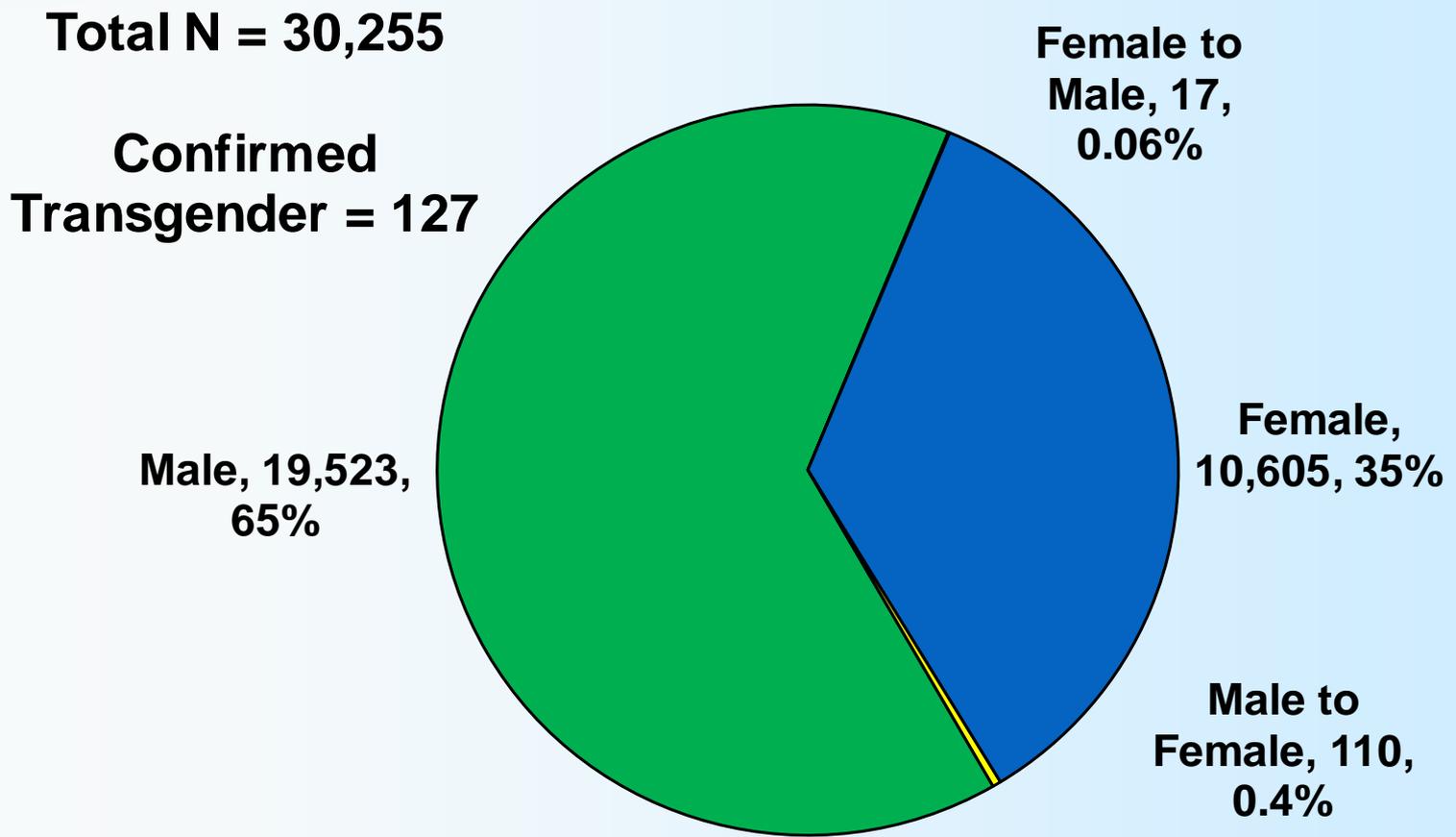


Adult/Adolescent Population and Living HIV Cases by Sex at Birth Baltimore-Columbia-Towson MSA



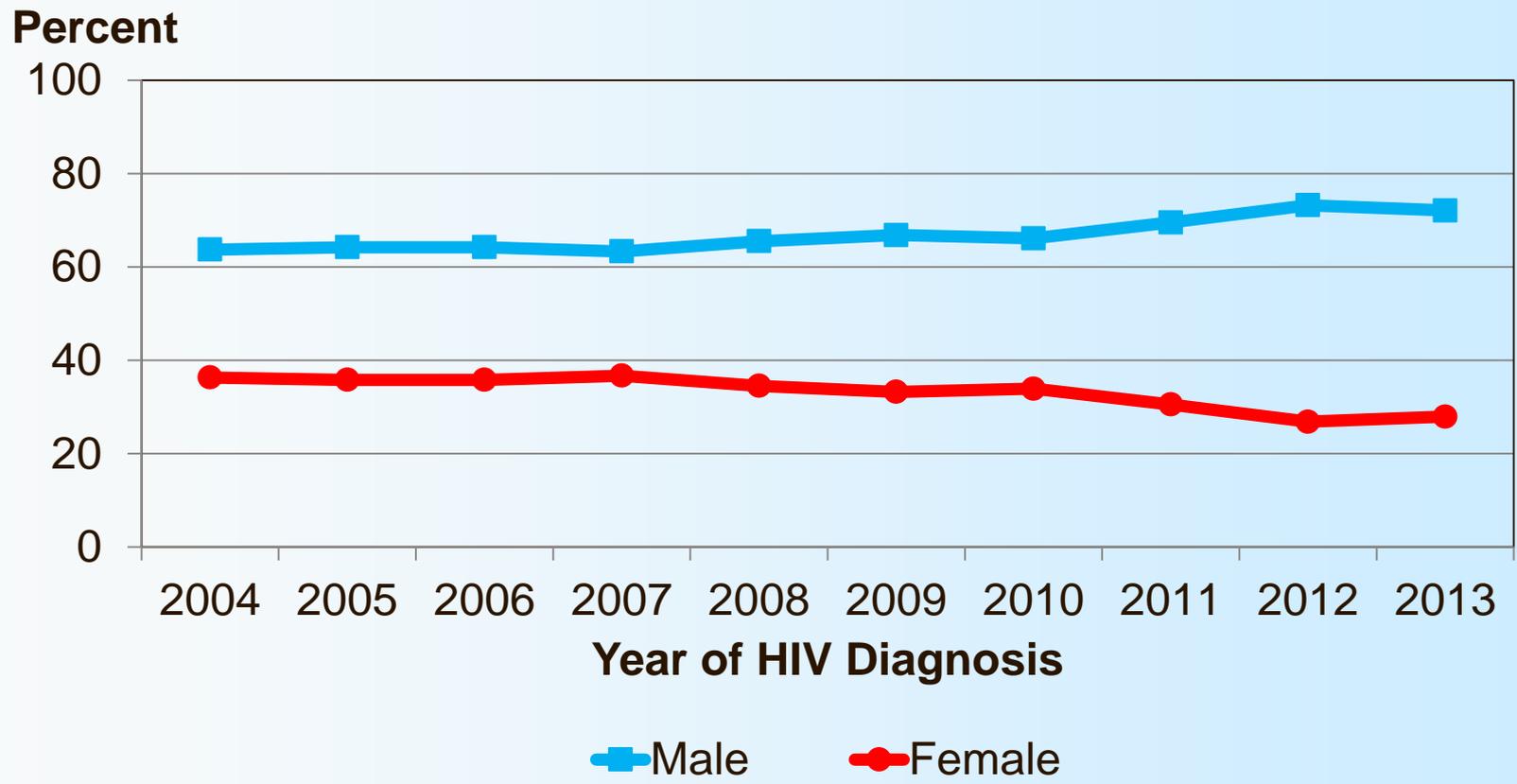
Population on 7/1/12, Cases on 12/31/13
as reported through 12/31/14

Maryland Adult/Adolescent Living HIV Cases by Gender, 12/31/13



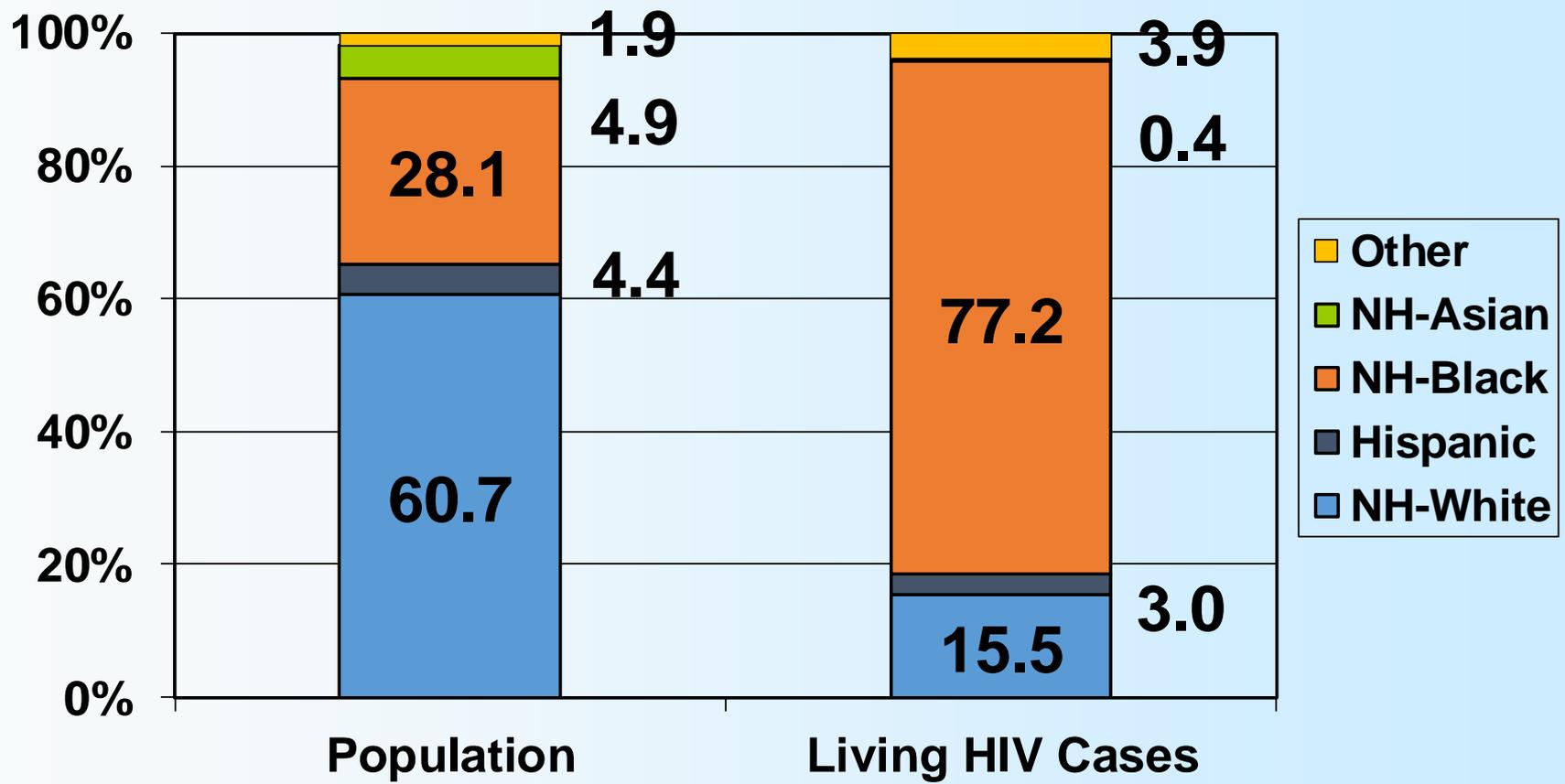
Using data as reported through 12/31/2014

Adult/Adolescent HIV Diagnosis Trends by Sex at Birth, Baltimore-Columbia-Towson MSA



Using data as reported through 12/31/2014

Adult/Adolescent Population and Living HIV Cases by Race/ Ethnicity, Baltimore-Columbia- Towson MSA

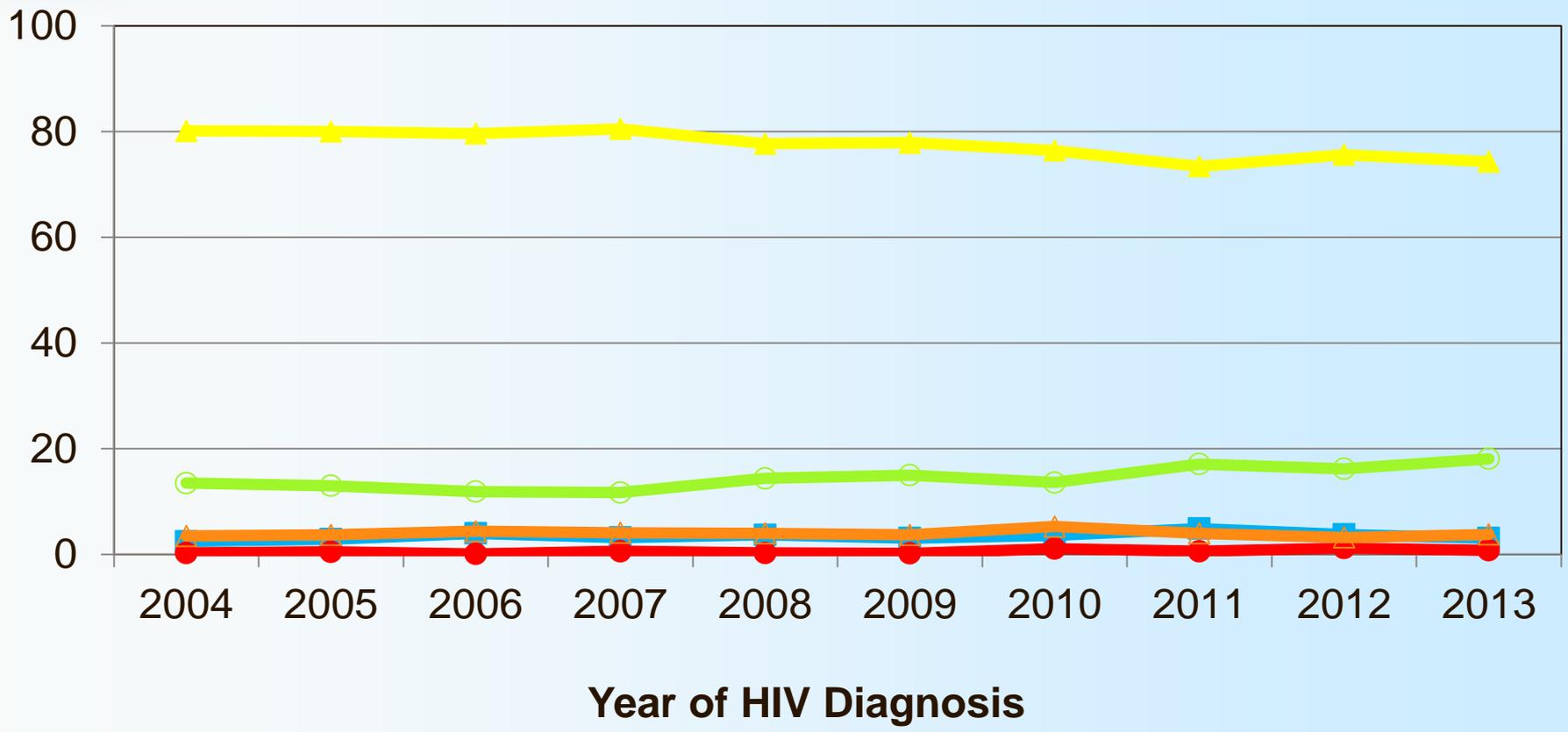


Population on 7/1/12, Cases on 12/31/13
as reported through 12/31/14

Adult/Adolescent HIV Diagnosis Trends by Race/ Ethnicity, Baltimore-Columbia-Towson MSA



Percent



■ Hispanic
 ● NH-Asian
 ▲ NH-Black
 ○ NH-White
 ▲ NH-Other

Using data as reported through 12/31/2014



Exposure Categories

MSM: Men who have Sex with Men

IDU: Injection Drug Use

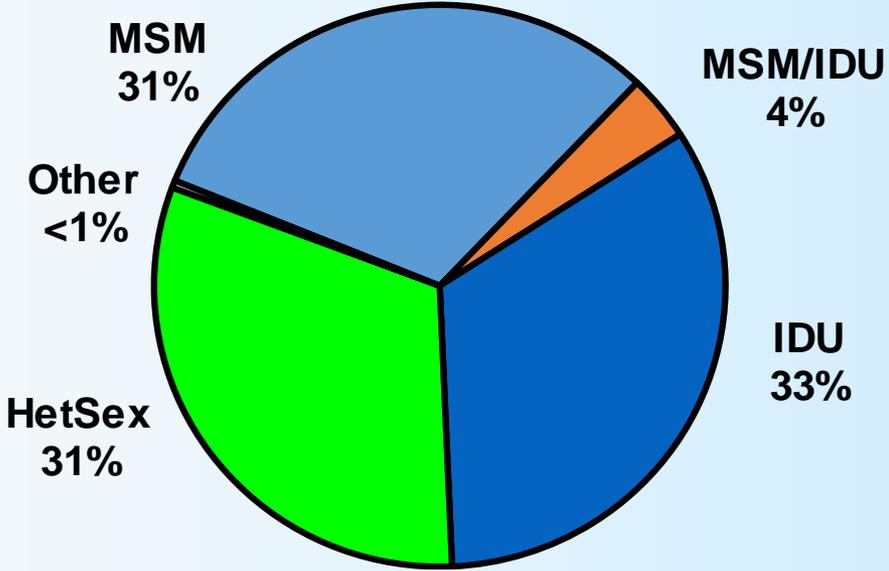
MSM/IDU: Men who have Sex with Men
AND Inject Drugs

HetSex: Heterosexual Contact with a
Person that has or is at Risk for HIV
Infection

Living Adult/Adolescent HIV Cases 12/31/13 by Exposure Category, Baltimore-Columbia- Towson MSA



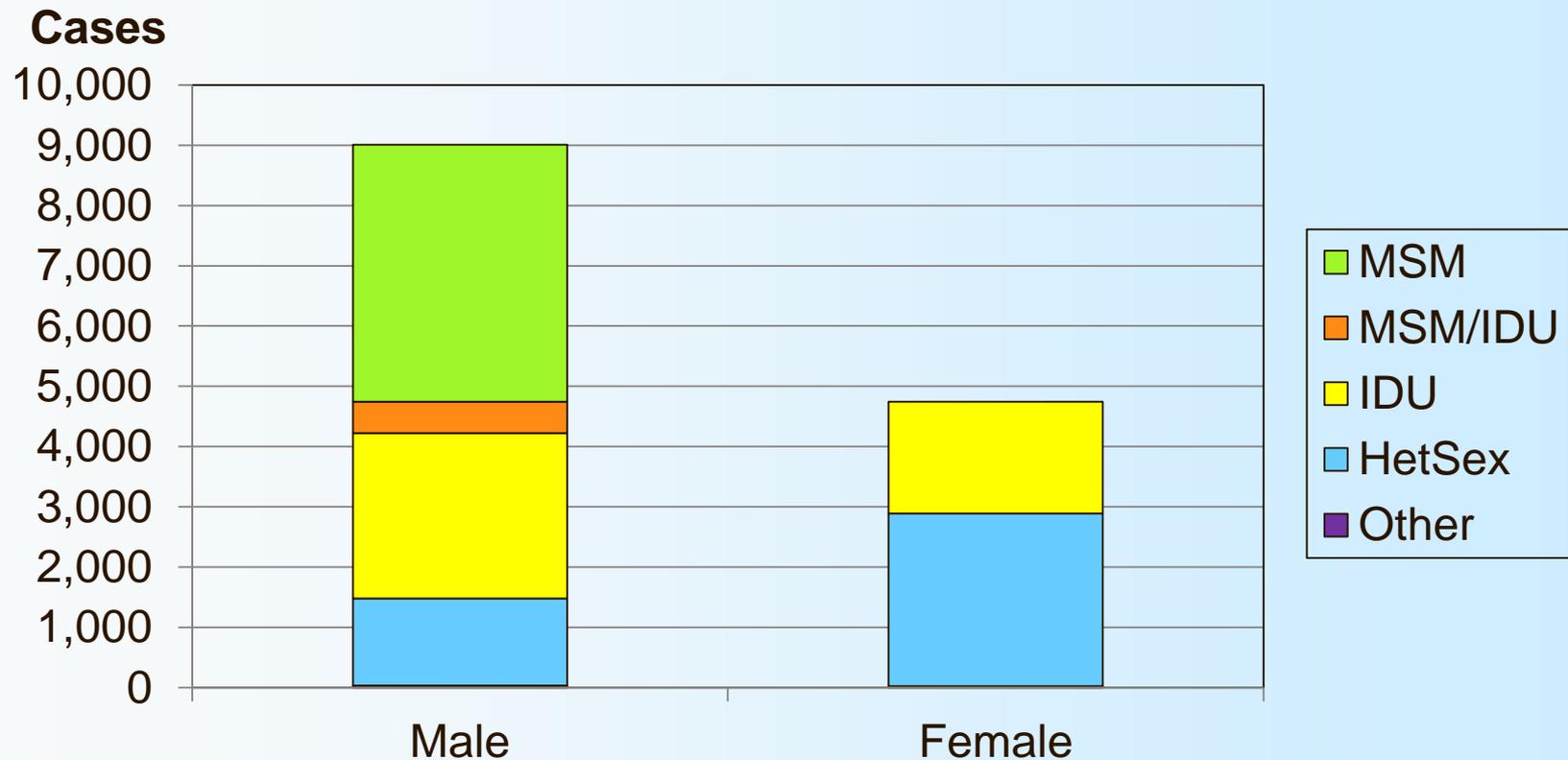
N (with Risk) = 13,749 (81% of Total)



Using data as reported through 12/31/2014



Living Adult/Adolescent HIV Cases 12/31/13 by Exposure Category and Sex at Birth Baltimore-Columbia-Towson MSA



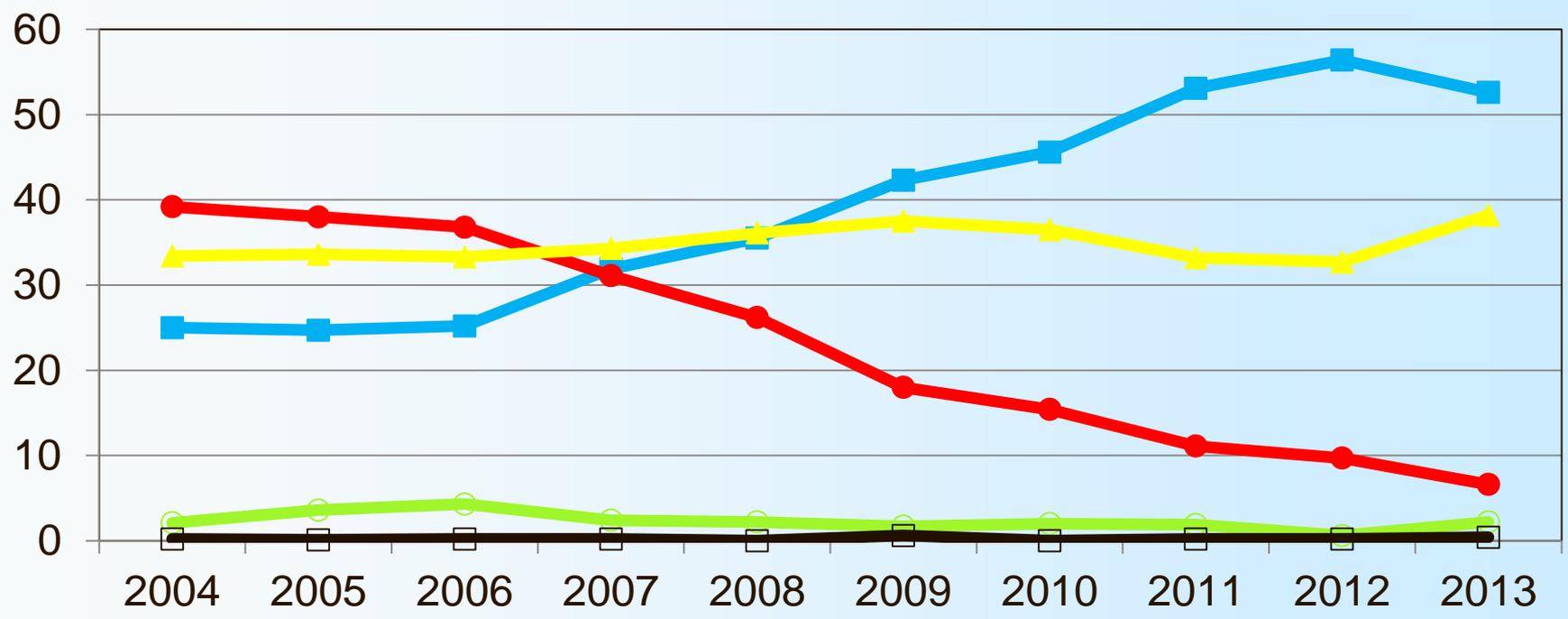
Using data as reported through 12/31/2014

Reported Adult/Adolescent HIV Diagnoses, Exposure Category



Trends, Baltimore-Columbia-Towson MSA

Percent



Year of HIV Diagnosis

■ MSM
 ● IDU
 ▲ HetSex
 ○ MSM/IDU
 ■ Other

Using data as reported through 12/31/2014

Behavioral Surveillance MSM Overview



	Wave 1 June 2004 – Apr 2005	Wave 2 Aug – Nov 2008	Wave 3 Aug – Dec 2011
Data collection method	Venue – based	Venue – based	Venue – based
Total recruited*	645	448	403
HIV prevalence	37.7%	37.5%	42.4%
Unrecognized infection	58.4%	78.4%	67.3%

Wave 4 recruitment ended in December

*MSM during past year with completed survey and HIV test

Behavioral Surveillance HET Overview



	Wave 1 July – Oct 2007	Wave 2 Sept – Dec 2010	Wave 3 Sept – Dec 2013
Data collection method	Venue – based	Respondent Driven	Respondent Driven
Total recruited*	332	338	428
HIV prevalence	3.9%	6.3%	6.6%
Unrecognized infection	83.3%	62.5%	35.3%

*Heterosexual during past year with completed survey and HIV test

Behavioral Surveillance IDU Overview



	Wave 1 Aug 2006 – Jan 2007	Wave 2 Sept – Dec 2009	Wave 3 Aug – Dec 2012
Data collection method	Respondent Driven	Respondent Driven	Respondent Driven
Total recruited*	539	507	620
HIV prevalence	11.9%	16.2%	23.2%
Unrecognized infection	50%	48%	27.8%

*IDU during past year with completed survey and HIV test

Baltimore-Columbia-Towson MSA Adult/Adolescent 2012 HIV Diagnoses (N=645)



- Linkage to Care: 80% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 82% had a CD4 test within 12 months of HIV diagnosis, and the median value was 340 cells/microliter
- Late HIV Diagnosis: 30% had an AIDS diagnosis within 12 months of their HIV diagnosis

Details by subpopulations available in Epidemiological Profile.
Using data as reported through 12/31/2014

Baltimore-Columbia-Towson MSA Adult/Adolescent 2012 AIDS Diagnoses (N=472)



- Progression: The average time from HIV diagnosis to AIDS diagnosis was 4.5 years
- Late HIV Diagnosis: 43% were diagnosed with AIDS within 12 months of their HIV diagnosis

Baltimore-Columbia-Towson MSA HRSA Unmet Need Estimate



- Calculated using CY 2013 data as reported through 12/31/2014
- 17,170 living adult/adolescent HIV/AIDS cases
- 6,528 (38.0%) with no CD4 test result during 2013

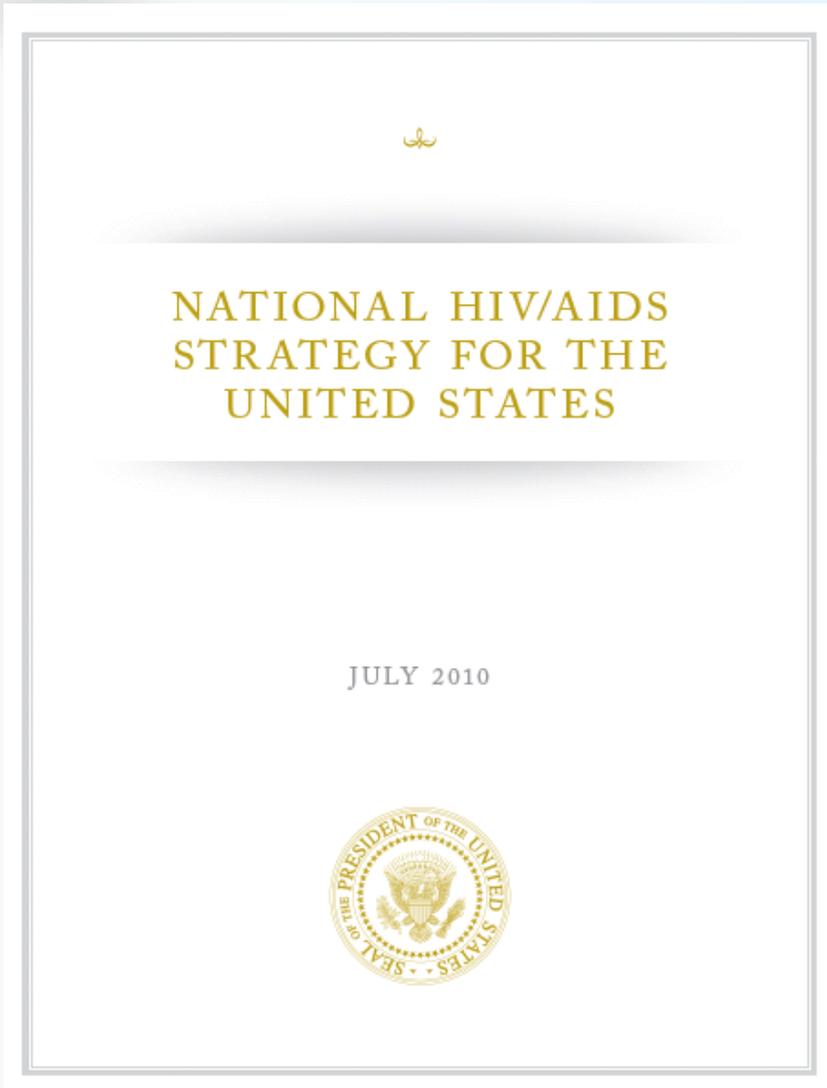


Moving Forward

NHAS 2010



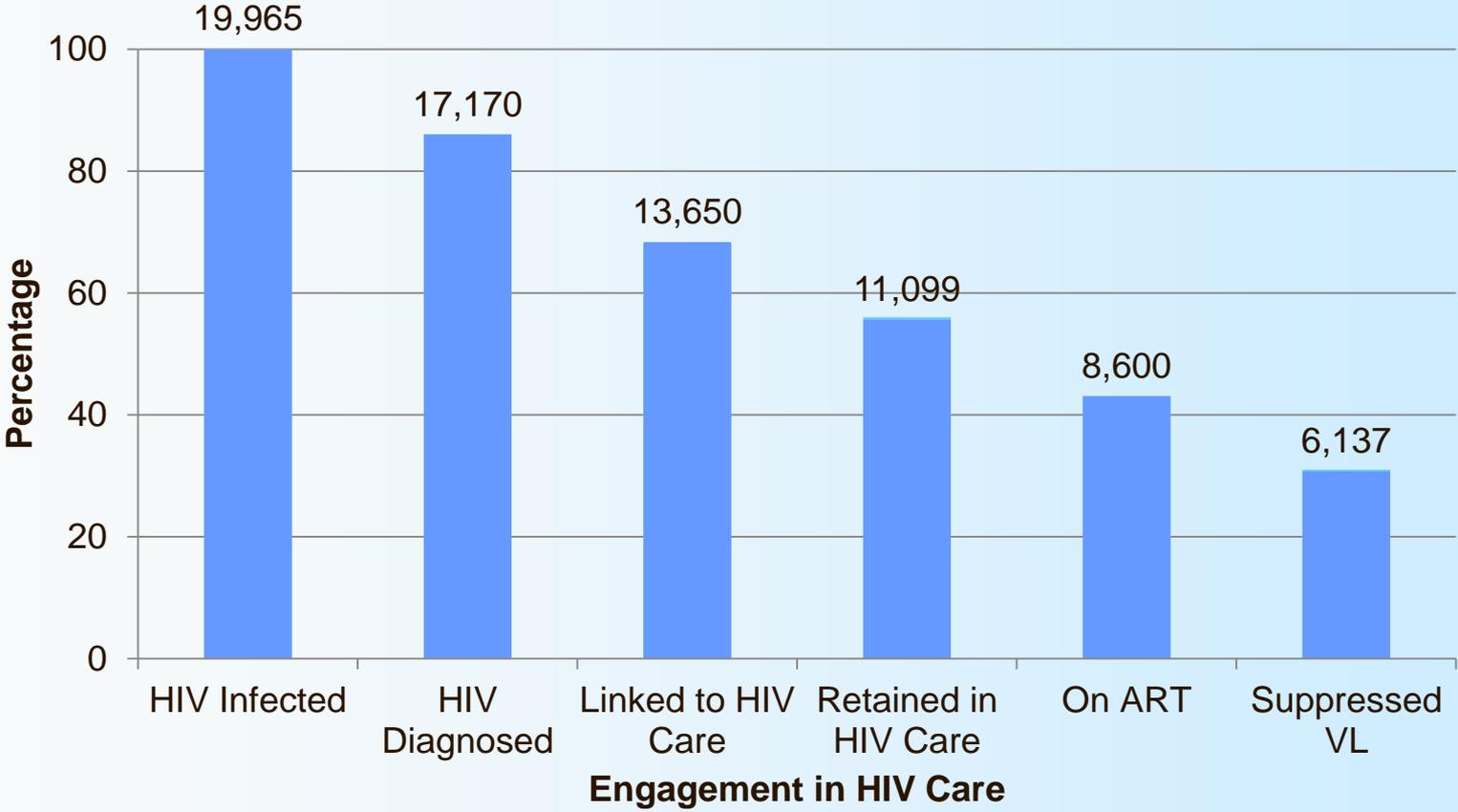
- Reducing new HIV infections
- Increasing access to care and improving health outcomes for people living with HIV
- Reducing HIV-related disparities and health inequities





Continuum of Care

Estimated number and percentage of HIV infected adults/adolescent engaged in selected stages of the continuum of care, Baltimore-Columbia-Towson MSA, 2013



Using data as reported through 12/31/2014

Continuum of Care Calculation

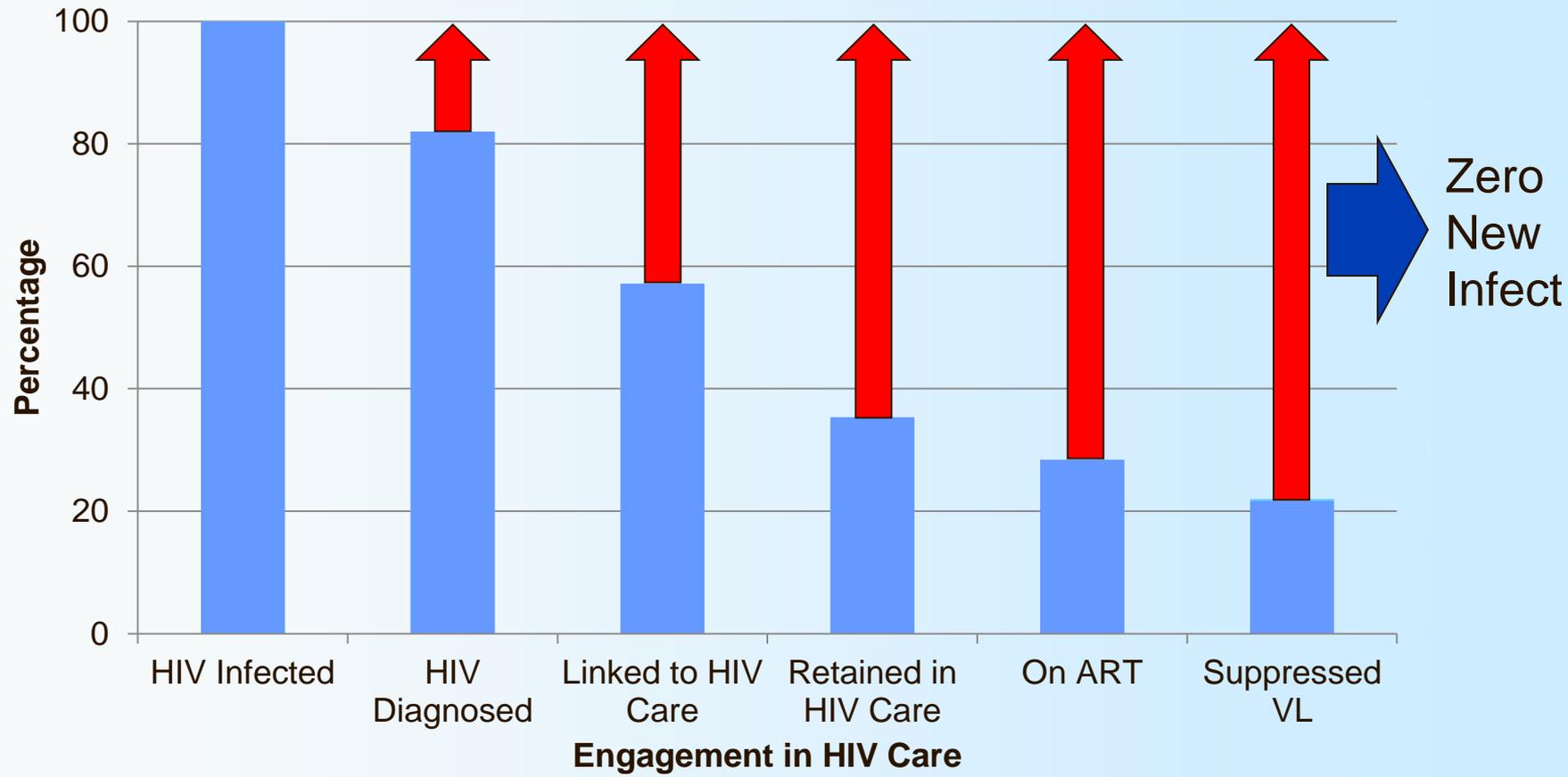


- HIV infected – apply national estimate of undiagnosed to reported living cases
- HIV diagnosed – reported living cases
- Linked to HIV care – apply percent of new diagnoses with CD4/VL within 3 months from most recent year to reported living cases
- Retained in HIV care – reported living cases with a CD4 test during prior year
- On ART – interpolated between retained in HIV care and suppressed VL
- Suppressed VL – most recent VL during prior year for reported living cases that was undetectable or <400 copies/ml



Continuum of Care

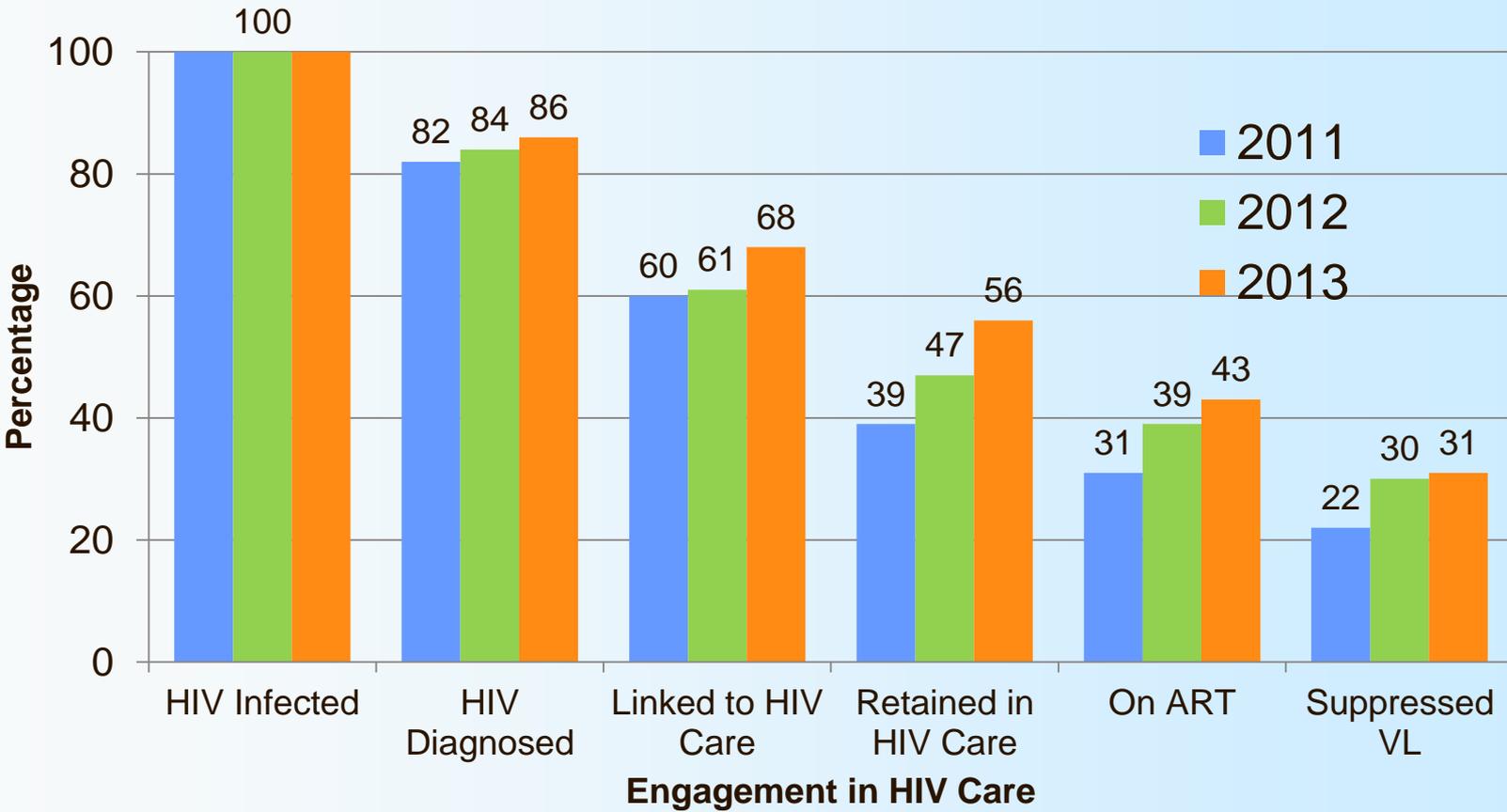
Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care





Continuum of Care

Estimated percentage of HIV infected adults/adolescents engaged in selected stages of the continuum of care, Baltimore-Columbia-Towson MSA, 2011, 2012, and 2013



Using data as reported through 12/31/2012, 12/31/2013, and 12/31/2014

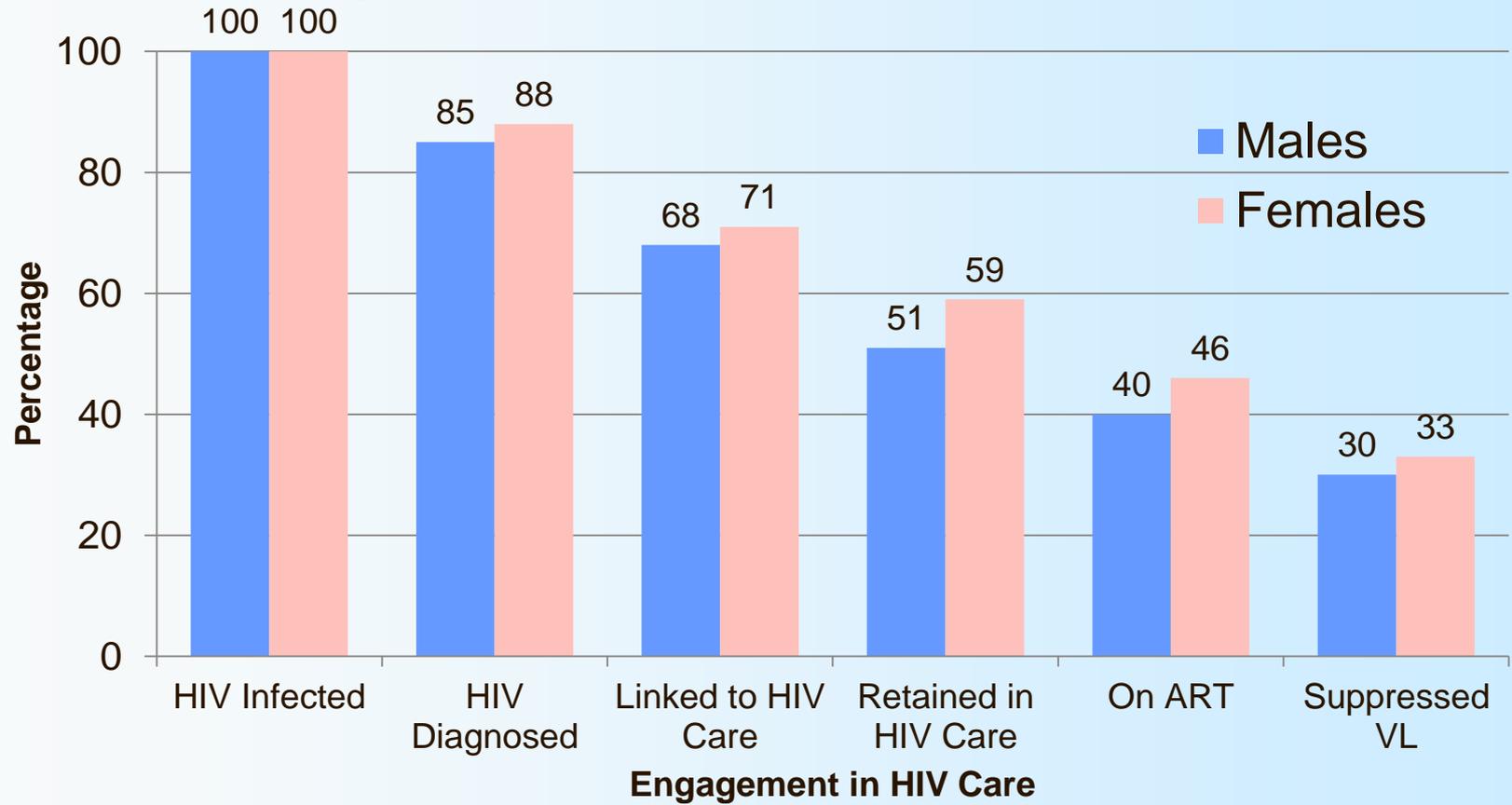


Continuum of Care by Population Groups



Continuum of Care

Estimated percentage of HIV infected adults/adolescents engaged in selected stages of the continuum of care, by sex at birth, Baltimore-Columbia-Towson MSA, 2013

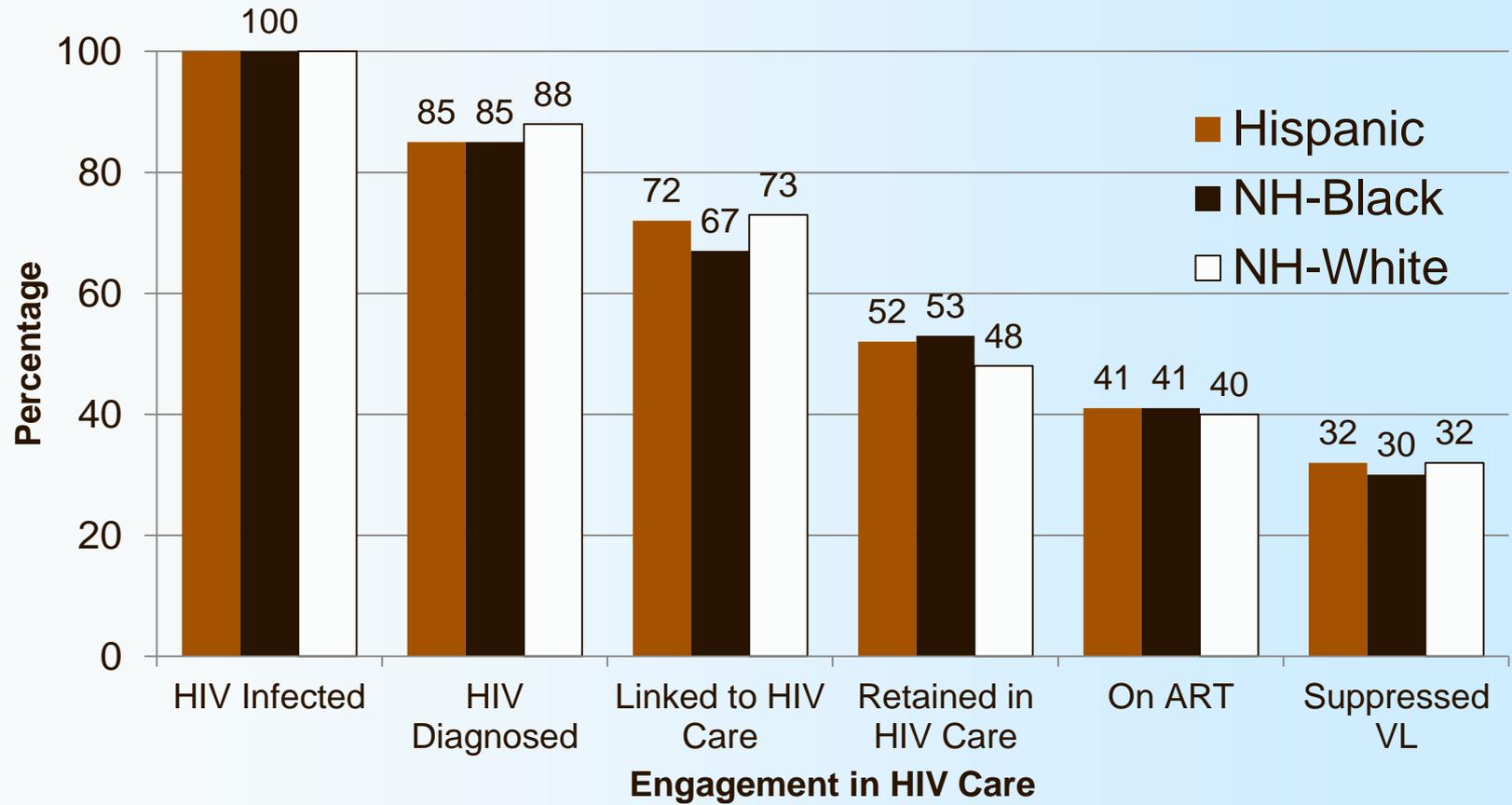


Using data as reported through 12/31/2014



Continuum of Care

Estimated number and percentage of HIV infected adults engaged in selected stages of the continuum of care, by race/ethnicity, Baltimore-Columbia-Towson MSA, 2013

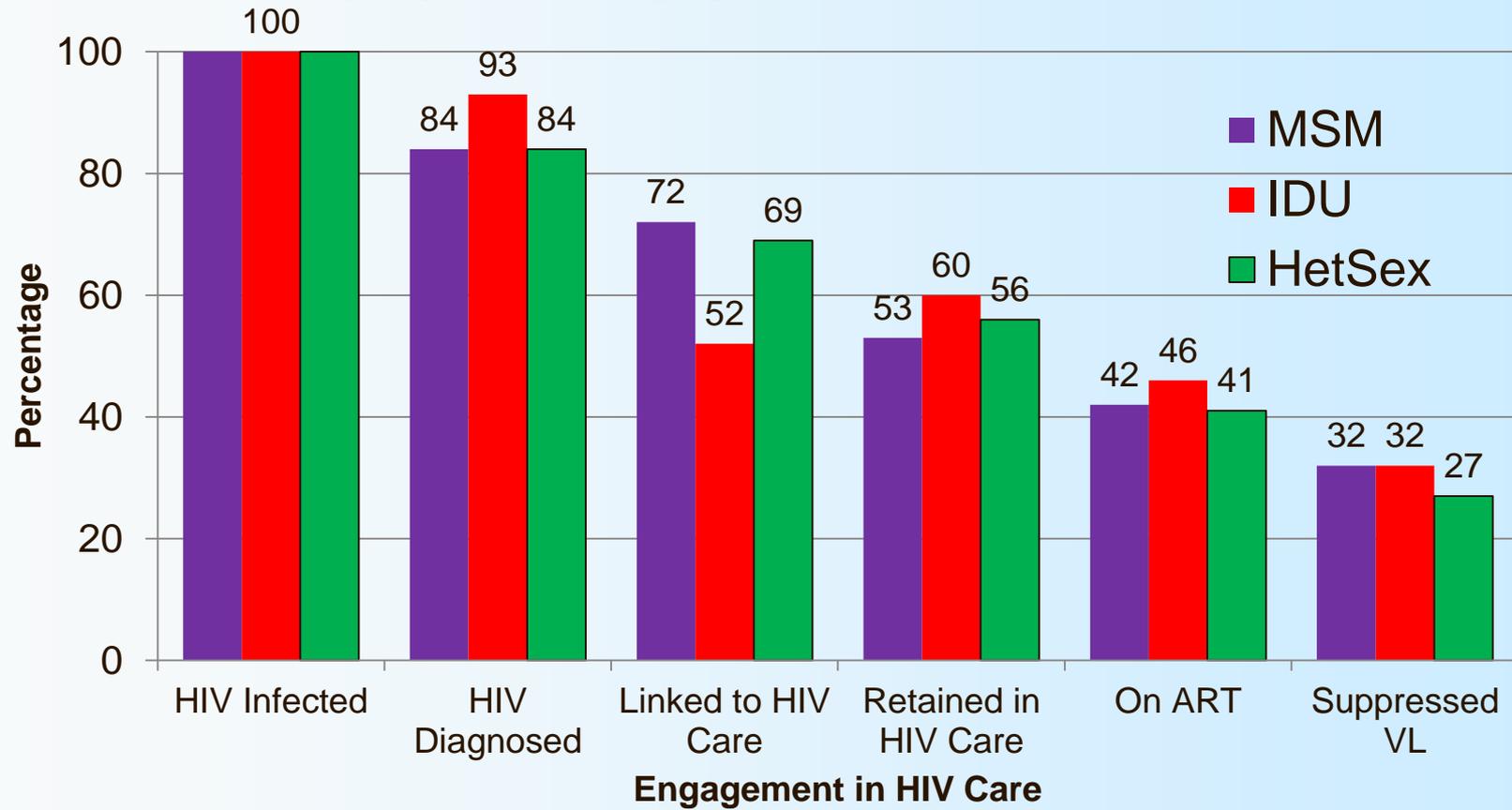


Using data as reported through 12/31/2014



Continuum of Care

Estimated number and percentage of HIV infected adults engaged in selected stages of the continuum of care, by exposure category, Baltimore-Columbia-Towson MSA, 2013

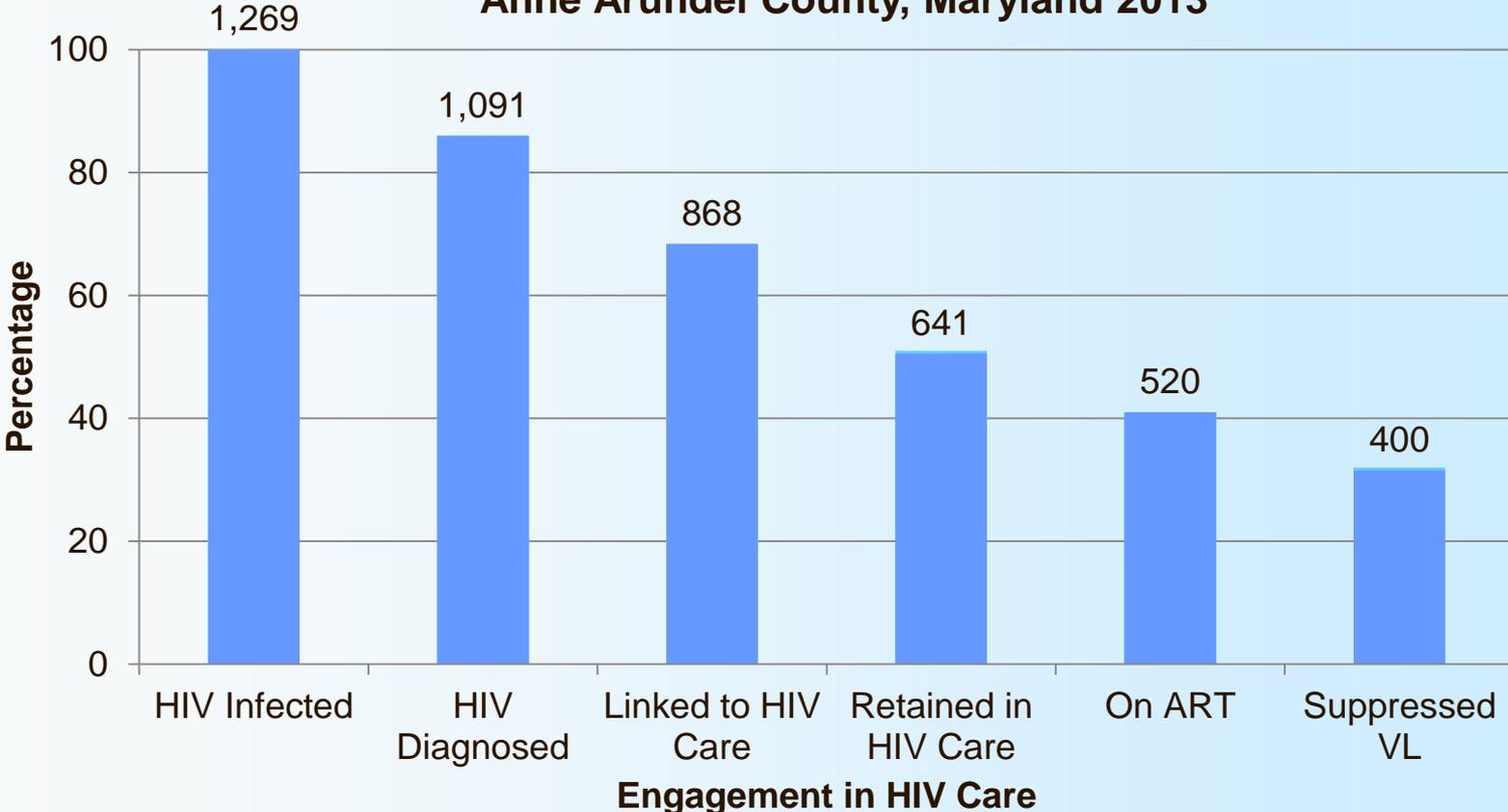


Using data as reported through 12/31/2014



Continuum of Care

Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Anne Arundel County, Maryland 2013

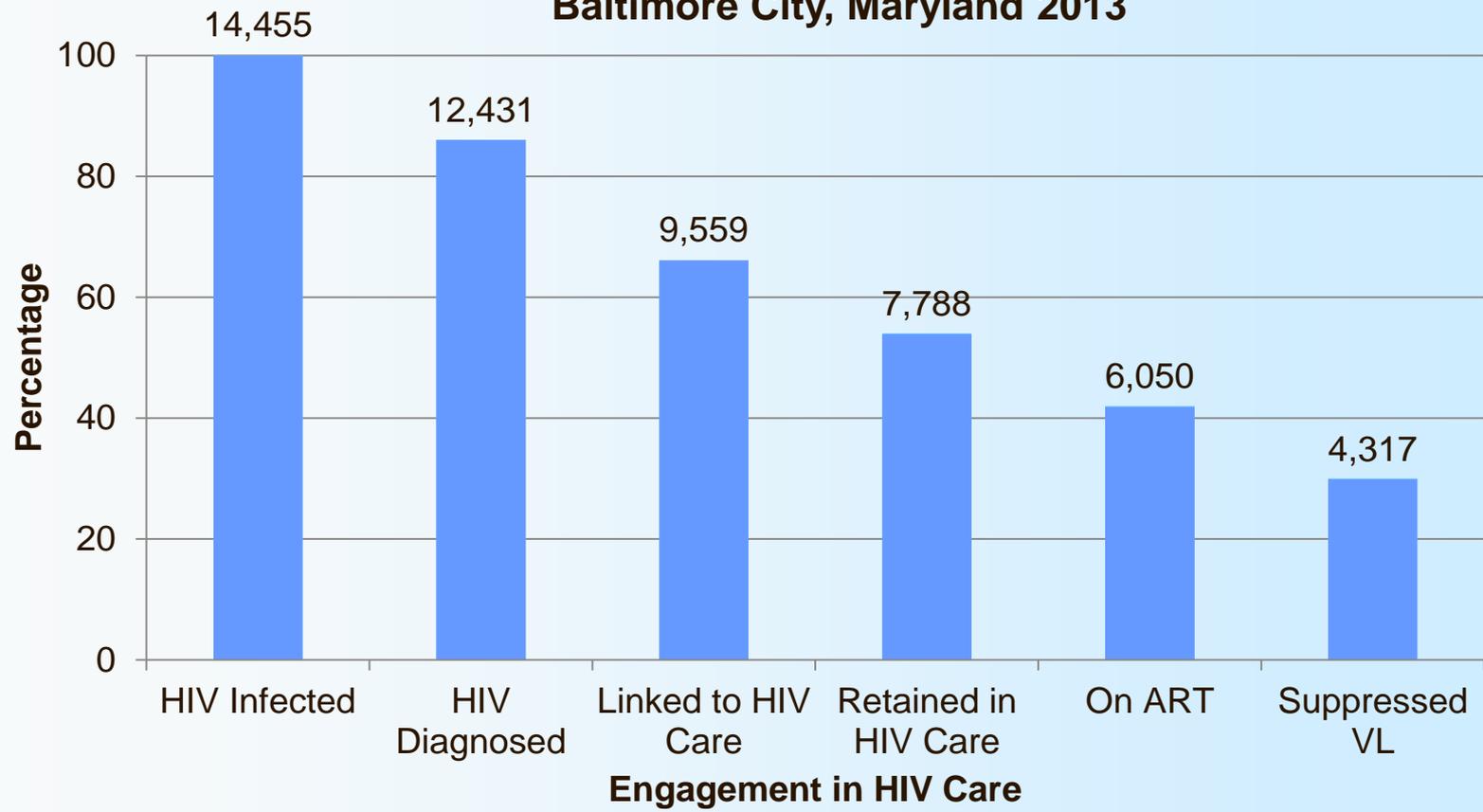


Using data as reported through 12/31/2014



Continuum of Care

Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Baltimore City, Maryland 2013

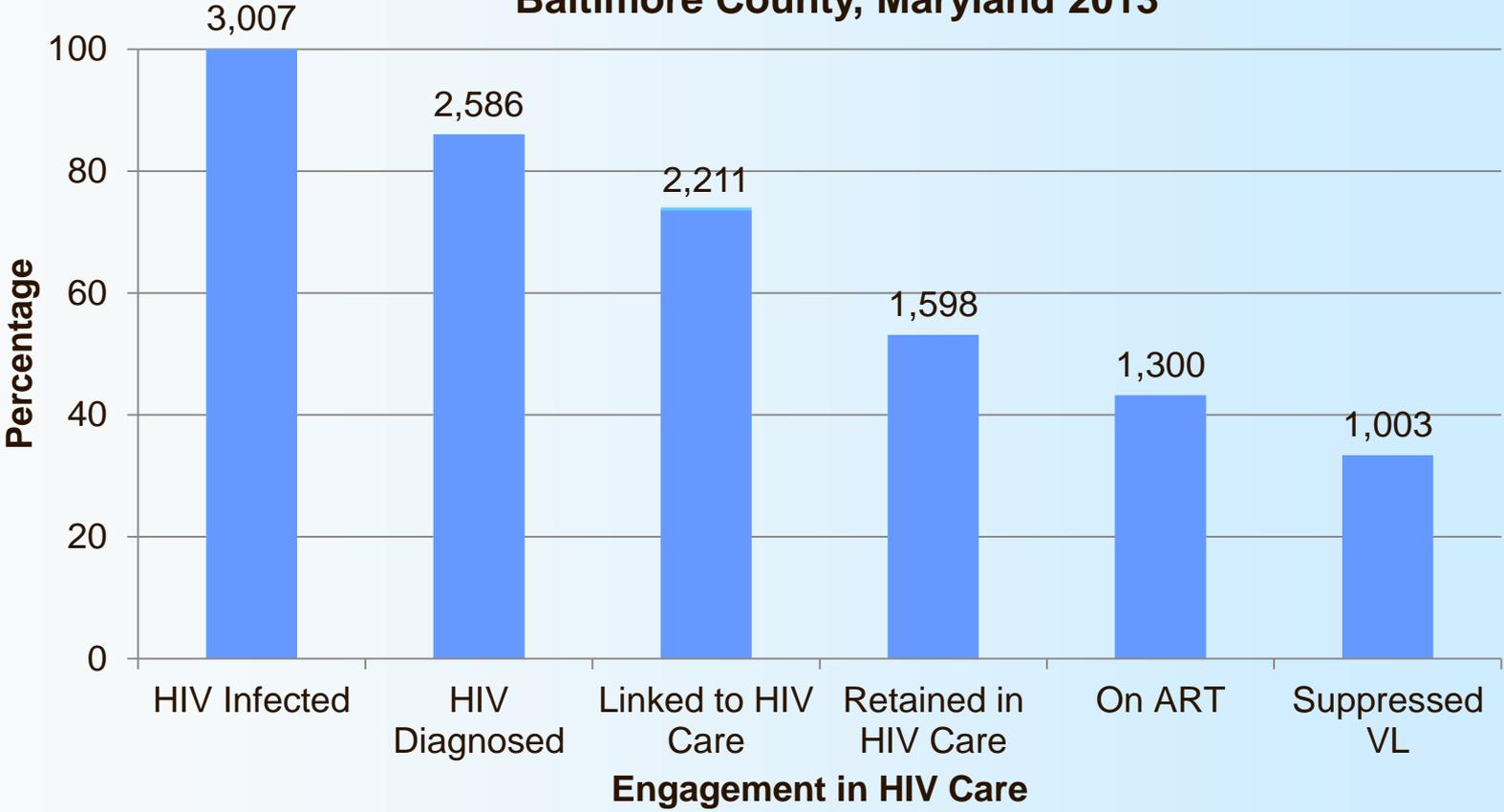


Using data as reported through 12/31/2014



Continuum of Care

Estimated number and percentage of HIV infected adults/adolescents engaged in selected stages of the continuum of care, Baltimore County, Maryland 2013

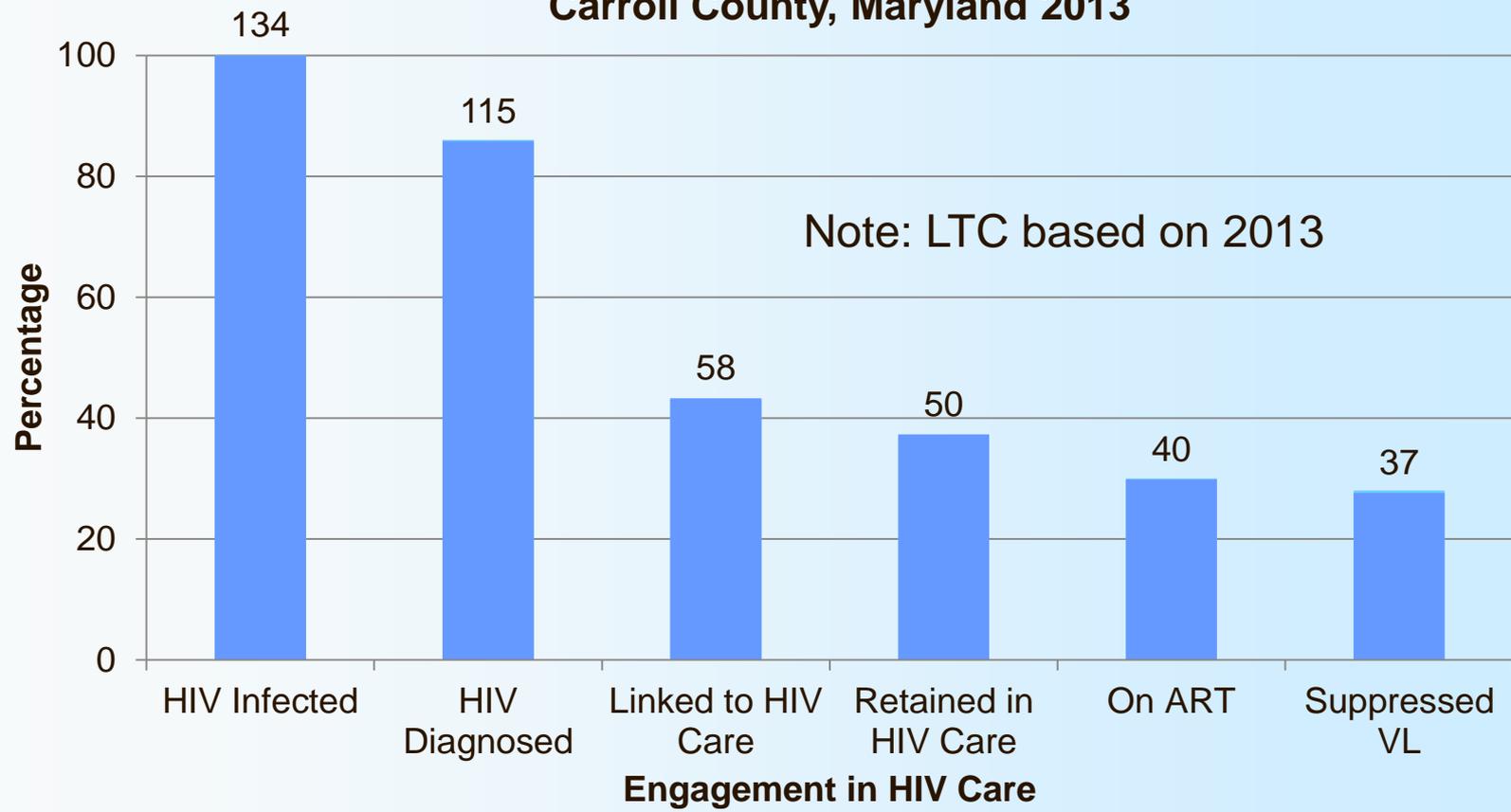


Using data as reported through 12/31/2014



Continuum of Care

Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Carroll County, Maryland 2013

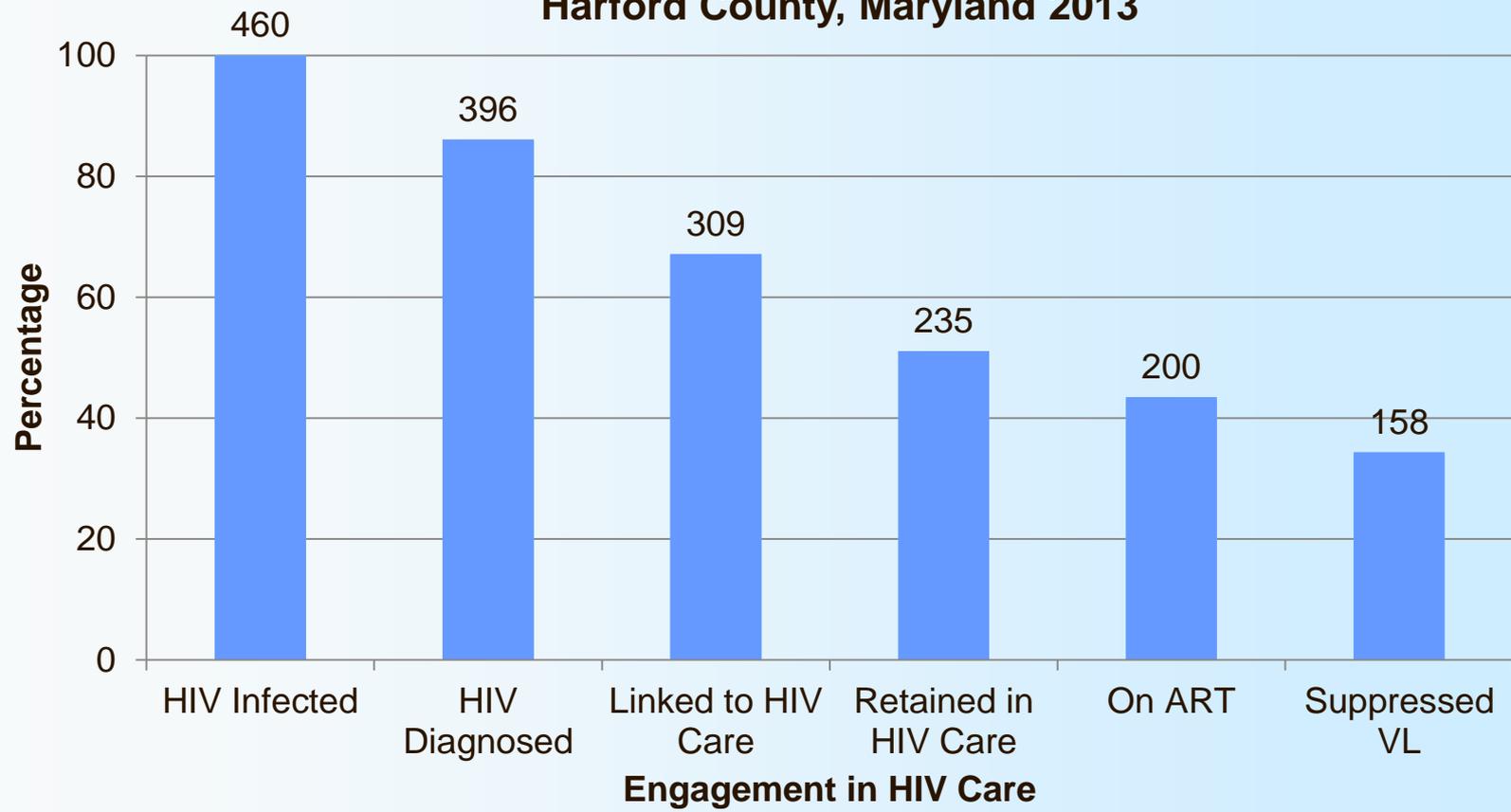


Using data as reported through 12/31/2014



Continuum of Care

Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Harford County, Maryland 2013

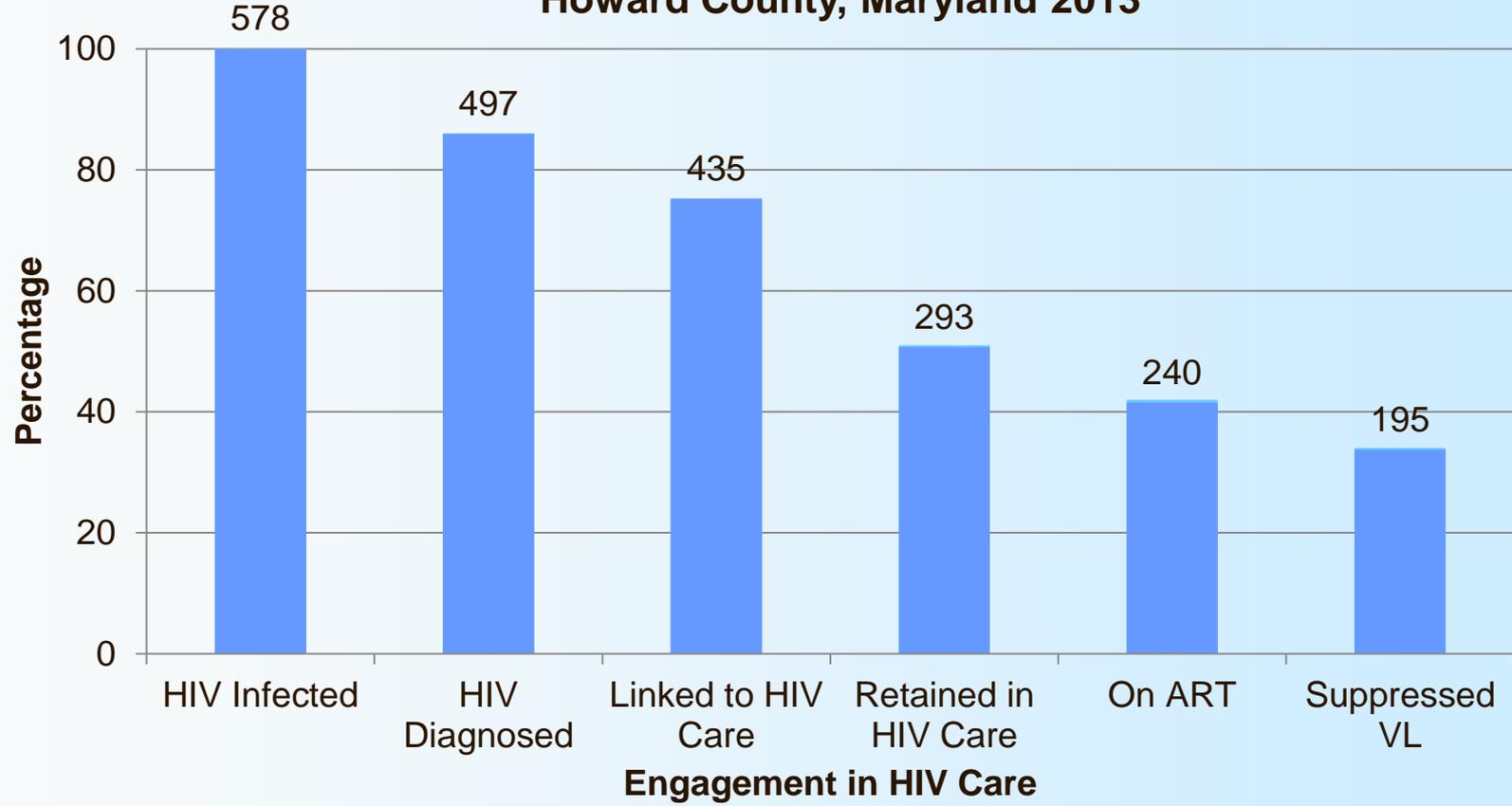


Using data as reported through 12/31/2014



Continuum of Care

Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Howard County, Maryland 2013

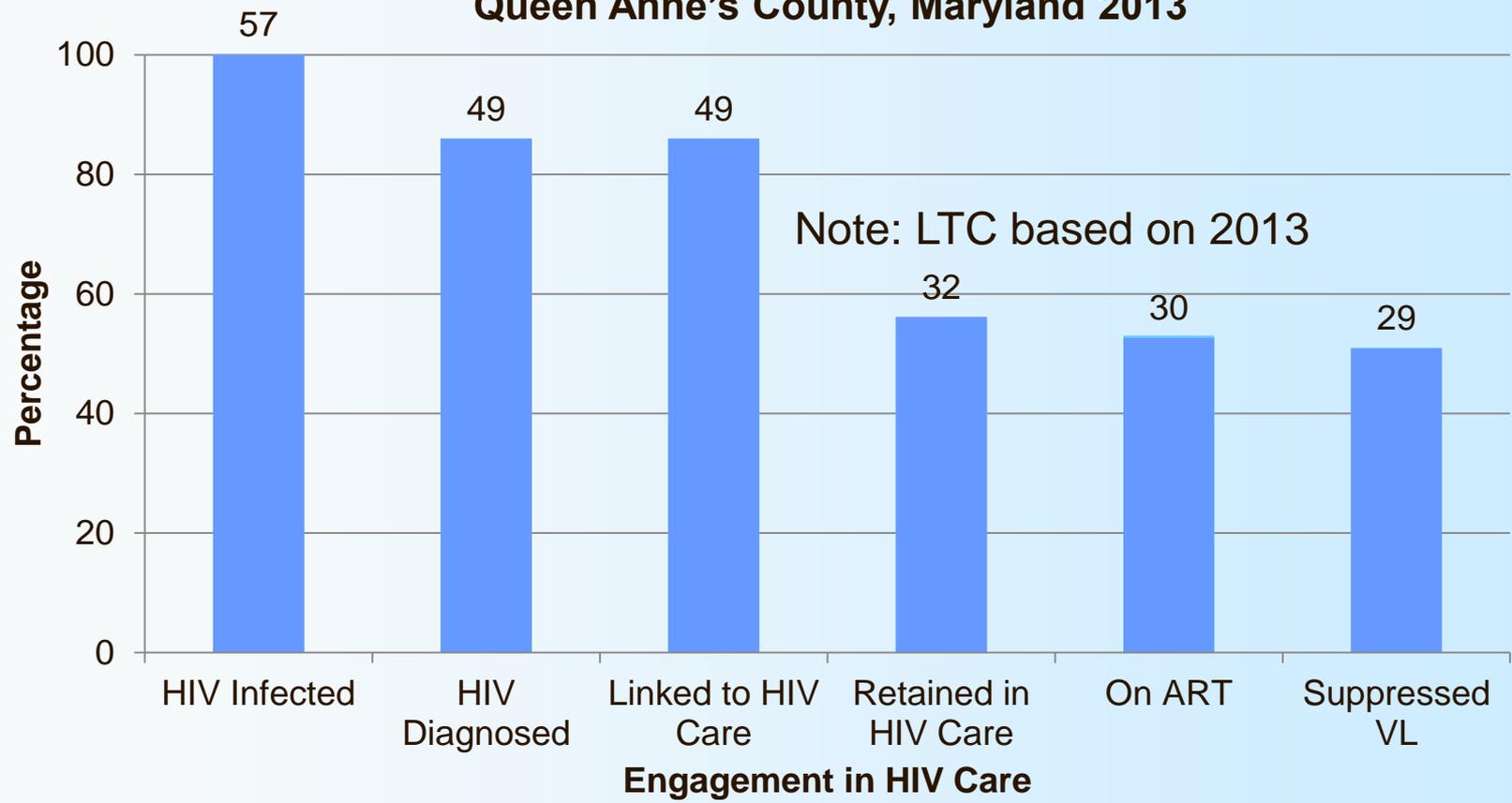


Using data as reported through 12/31/2014



Continuum of Care

Estimated number and percentage of HIV infected adults/ adolescents engaged in selected stages of the continuum of care, Queen Anne's County, Maryland 2013



Using data as reported through 2014



Prevention and Health Promotion Administration

<http://phpa.dhmh.maryland.gov/oideor/chse>